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(54) Title: ANTIGENIC PEPTIDES, SUCH AS FOR G PROTEIN-COUPLED RECEPTORS (GPCRS), ANTIBODIES THERETO, AND SYSTEMS FOR IDENTIFYING SUCH ANTIGENIC PEPTIDES

(57) Abstract: The present invention provides antigenic peptides for GPCRs and antibodies relating thereto, and related systems, methods, compositions, and the like, such as diagnostics and medicaments. Where antibodies against a given GPCR are not known, the present invention provides such antibodies, and preferred antigenic sequences for producing such antibodies. Where antibodies against a given GPCR are known, the present invention provides preferred antigenic peptides for producing antibodies that exhibit improved specificity, affinity or capacity to perform antibody-related actions relative to the known antibodies.

**ANTIGENIC PEPTIDES, SUCH AS FOR G PROTEIN-COUPLED RECEPTORS
(GPCRS), ANTIBODIES THERETO, AND SYSTEMS FOR IDENTIFYING SUCH
ANTIGENIC PEPTIDES**

5 CROSS-REFERENCE TO RELATED APPLICATIONS

[1] The present application claims priority from United States provisional patent application No. 60/257,144, filed December 19, 2000 and presently pending.

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LPHIC:

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BACKGROUND

[4] G protein-coupled receptors (GPCRs) are a large group of proteins that transmit signals across cell membranes. In general terms, GPCRs function somewhat like doorbells.
15 When a molecule outside the cell contacts the GPCR (pushes the doorbell), the GPCR changes its shape and activates "G proteins" inside the cell (similar to the doorbell causing the bell to ring inside the house, which in turn causes people inside to answer the door). GPCRs are like high-security doorbells because each GPCR responds to only one specific kind of signaling molecule (called its "endogenous ligand"), kind of like a high-tech door
20 lock that responds to only one fingerprint. Part of the GPCR is located outside the cell (the "extracellular domain"), part spans the cell's membrane (the "transmembrane domain"), and part is located inside the cell (the "intracellular domain"). Thus, GPCRs are embedded in the outer membrane of a cell and recognize and bind certain signaling molecules that are present in the spaces surrounding the cell. GPCRs are used by cells to keep an eye on the cells' own
25 activity and on the environment. In organisms that have many cells, the cells use GPCRs to talk to each other.

[5] GPCRs are important to the pharmaceutical industry and other industries. For example, many drugs, including some antibody-based drugs, act by binding to specific GPCRs and initiating or inhibiting their intracellular actions, and diagnostics and therapeutics
30 based on GPCRs or on antibodies for GPCRs are becoming increasingly important.

[6] General concepts about GPCRs are discussed in more scientific terms in the following paragraphs.

[7] The GPCR superfamily has at least 250 members, Strader et al., FASEB J., 9:745-754 (1995); Strader et al., Annu. Rev. Biochem., 63:101-32 (1994). GPCRs play important

roles in diverse cellular processes including cell proliferation and differentiation, leukocyte migration in response to inflammation, gene transcription, vision (the rhodopsins), smell (the olfactory receptors), neurotransmission (muscarinic acetylcholine, dopamine, and adrenergic receptors), and hormonal response (luteinizing hormone and thyroid-stimulating hormone receptors). Strader et al., *supra*; U.S. Patent nos. 5,994,097 and 6,063,596. Many important drugs produce their therapeutic actions through their interaction with GPCRs.

[8] Nucleotide and amino acid sequences for many GPCRs have been reported and can be found in public databases such as GenBank and GenPept. Generally speaking, different GPCRs show both structural and sequence similarities. The most conserved domains of GPCRs are the transmembrane domains and the first two cytoplasmic loops. GPCRs range in size from under 400 to over 1000 amino acids. Coughlin, S. R., *Curr. Opin. Cell Biol.* 6:191-197 (1994). They contain seven hydrophobic transmembrane regions that span the cellular membrane and form a bundle of antiparallel alpha helices. McKee K.K., *supra*. The bundle of helices forming the transmembrane regions provide many structural and functional features of the receptor. In most cases, the bundle of helices form a pocket that binds a signaling molecule. However, when the binding site accommodates larger molecules, the extracellular N-terminal segment or one or more of the three extracellular loops participate in binding and in subsequent induction of conformational change in the intracellular portions of the receptor. These helices are joined at their ends by three intracellular and three extracellular loops. GPCRs also contain cysteine disulfide bridges between the second and third extracellular loops, an extracellular N-terminus, and a cytoplasmic or intracellular C-terminus. The N-terminus is often glycosylated, while the C-terminus is generally phosphorylated. A conserved, acidic-Arg-aromatic triplet present in the second cytoplasmic loop may interact with G Proteins. Most GPCRs contain a characteristic consensus pattern. Watson, S. and S. Arkinstall, *The G protein Linked Receptor Facts Book*, Academic Press, San Diego, CA (1994); Bolander, F. F. *Molecular Endocrinology*, Academic Press, San Diego, CA (1994).

[9] Although GPCRs have many features in common, each GPCR has its own unique characteristics as well. GPCRs have varying nucleotide and amino acid sequences, and varying antigenicity. GPCRs bind a diverse array of specific, extracellular signaling molecules (which can also be referred to as "ligands") including peptides, cytokines, hormones, neurotransmitters, growth factors, and specialized stimuli such as photons,

flavorants, and odorants. Identified ligands include, for example, purines, nucleotides (*e.g.*, adenosine, cAMP, NTPs), biogenic amines (*e.g.*, epinephrine, norepinephrine, dopamine, histamine, noradrenaline, serotonin), acetylcholine, peptides (*e.g.*, angiotensin, calcitonin, chemokines, corticotropin releasing factor, galanin, growth hormone releasing hormone, gastric inhibitory peptide, glucagon, neuropeptide Y, neurotensin, opioids, thrombin, secretin, somatostatin, thyrotropin releasing hormone, vasopressin, vasoactive intestinal peptide), lipids and lipid-based compounds (*e.g.*, cannabinoids, platelet activating factor), excitatory and inhibitory amino acids (*e.g.*, glutamate, GABA), ions (*e.g.*, calcium), and toxins.

[10] In general, a GPCR binds only one type of signaling molecule and GPCRs are classified according to subfamilies based upon their selectivity and specificity for a particular ligand. When the ligand for a receptor is not known, the receptor is known as an orphan receptor. The extracellular domain interacts with or binds to certain signaling molecules or ligands located outside of the cell. The binding of a ligand to the extracellular domain alters the conformation of the receptor's intracellular domain causing the activation of a G protein. The G protein then activates or inactivates a separate plasma-membrane-bound enzyme or ion channel. This chain of events alters the concentration of one or more intracellular messengers (second messengers) such as cyclic AMP (cAMP), inositol triphosphate, diacylglycerol, or Ca^{2+} . These, in turn, alter the activity of other intracellular proteins such as cAMP-dependent protein kinase and Ca^{2+} /calmodulin-dependent protein kinases, leading to the transduction and amplification of the original extracellular signal. Baldwin, J.M., *Curr. Opin. Cell Biol.* 6:180-190 (1994). The G protein is deactivated by hydrolysis of GTP by GTPase. U.S. Patent Nos. 5,994,097 and 6,063,596.

[11] GPCR mutations, both of the loss-of-function and of the activating variety, have been associated with numerous human diseases, Coughlin, *supra*. For example, retinitis pigmentosa may arise from either loss-of-function or activating mutations in the rhodopsin gene. Somatic activating mutations in the thyrotropin receptor cause hyperfunctioning thyroid adenomas, Parma, J. et al., *Nature* 365:649-651 (1993). Parma et al. indicate that it may be possible that certain G protein-coupled receptors susceptible to constitutive activation may behave as proto-oncogenes. Interestingly, GPCRs have functional homologues in human cytomegalovirus and herpesvirus, so GPCRs may have been acquired during evolution for viral pathogenesis, Strader et al., *FASEB J.*, 9:745-754 (1995); Arvanitakis et al., *Nature*, 385:347-350 (1997); Murphy, *Annu. Rev. Immunol.* 12:593-633 (1994). The

importance of the GPCR superfamily is further highlighted by the recent discoveries that some of its family members, the chemokine receptors CXCR4/Fusin and CCR5, are co-receptors for T cell-tropic and macrophage-tropic HIV virus strains, respectively, Alkhatib et al., Science, 272:1955 (1996); Choe et al., Cell, 85:1135 (1996); Deng et al., Nature, 381:661 (1996); Doranz et al., Cell, 85:1149 (1996); Dragic et al., Nature, 381:667 (1996); Feng et al., Science, 272:872 (1996). It is conceivable that blocking these receptors may prevent infection by the human immunodeficiency (HIV) virus. Other GPCR-related items include regulating cellular metabolism and diagnosing, treating and preventing particular diseases associated with particular GPCRs.

10 [12] One important way to evaluate GPCRs and antibodies for GPCRs as novel drug targets and for other purposes such as diagnostics is through the creation and use of databases. Such databases can provide large amounts of information about genes, proteins, and other biological matter. An excellent example of such a database is the GPCR database created and maintained by LifeSpan BioSciences, Inc., Seattle, Washington, USA, which
15 database is available by subscription to researchers and others needing such information. The information in the databases can, for example, be searched, compared, and analyzed. The compilation of such databases, as well as the searching, comparing, etc., of the databases, can be referred to as the field of "bioinformatics." Investigations largely related to genes, such as the information found from the sequencing of the human genome, can be called "genomics"
20 while similar activities on proteins can be called "proteomics."

[13] There has gone unmet a need for improved systems, compositions, methods, and the like relating to improved antigenicity of peptides from GPCRs and antibodies relating thereto. The present invention provides these and other advantages.

SUMMARY

25 [14] The present invention provides antigenic peptides for GPCRs and antibodies relating thereto, and related systems, methods, compositions, and the like, such as diagnostics and medicaments. Where antibodies against a given GPCR are not known, the present invention provides such antibodies, and preferred antigenic sequences for producing such antibodies. Where antibodies against a given GPCR are known, the present invention
30 provides preferred antigenic peptides for producing antibodies that exhibit improved specificity, affinity or capacity to perform antibody-related actions relative to the known

antibodies. The present invention also provides improved methods of selecting antigenic peptides from any desired protein or polypeptide, as well as antigenic peptides so produced and antibodies against such antigenic peptides.

[15] The antigenic peptides and antibodies herein can be used, for example, to detect the presence or absence of corresponding GPCRs. They can be used to diagnose a variety of diseases and disorders in which GPCRs are involved, such as, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

[16] The association of particular GPCRs with particular diseases, disorders or conditions will be apparent to a person of ordinary skill in the art in view of the present application, and thus the association with the antibodies of the present invention to the corresponding diseases, disorders or conditions.

5 [17] Thus, in one aspect the present invention provides isolated antigenic peptides according to any one of SEQ ID NOS. 692-2292. The isolated antigenic peptides also comprise an amino acid sequences that are at least about 90% or 95% identical to such sequences, or be an analog of such sequences, or comprise a short antigenic amino acid sequence that is identical to at least 5 consecutive amino acids set forth in any one of such
10 sequences or contain no more than one conservative amino acid substitution over at least 7 consecutive amino acids set forth in any of such sequences. The present invention also provides antibodies, particularly isolated antibody having high specificity and high affinity or avidity for a particular GPCR or other target polypeptide or protein, generated using the antigenic peptides discussed herein.

15 [18] The present invention also provides isolated nucleic acid molecules encoding an antigenic peptide or antibody as described herein. The molecule can encode a naturally occurring human antigenic peptide. In some embodiments, the present invention provides processes for producing an isolated polynucleotide can comprise hybridizing a nucleotide encoding an antigenic peptide as discussed herein to DNA such as genomic DNA under
20 stringent or highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

[19] The present invention also provides kits and assays, such as kits for the detection of antibodies against a particular GPCR or other target polypeptide in a sample comprising: a) an isolated antigenic peptide as discussed herein and derived from the particular GPCR, and
25 b) at least one of a reagent or a device for detecting the antibodies, or comprising: a) an isolated antibody as described herein, and b) at least one of a reagent or a device for detecting the antibody. The assays include detection of a particular GPCR in a sample, comprising: a) providing an isolated antigenic peptide, b) contacting the isolated antigenic peptide corresponding to the particular GPCR with the sample under conditions suitable and for a
30 time sufficient for the antigenic peptide to bind to one or more antibodies specific for the target protein present in the sample, to provide an antibody-bound target protein, and c) detecting the antibody-bound antigenic peptide, and therefrom determining whether the

sample contains the particular GPCR. The assays can further comprise the step of binding the isolated antigenic peptide or the antibody to a solid substrate, and the sample can be an unpurified sample, for example from a human being.

[20] The assay can be selected from the group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay (ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a biosensor assay, and a low-light detection assay.

10 [21] In other aspects, the present invention provides methods of identifying an amino acid sequence for an antigenic peptide from a candidate polypeptide sequence such as a polypeptide or protein wherein the antigenic peptide has a length of about 5 to about 100 amino acids, typically 6 amino acids to about 50 amino acids, and preferably 7 amino acids to about 20 amino acids. The methods comprise: a) searching the candidate polypeptide
15 sequence using a comparison window of the length, and b) selecting against amino acid sequences of the length and having at least 1 to 3 or 4 characteristics selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8)
20 tryptophan, and 9) at least five consecutive amino acids comprising no charged amino acids. Preferably, the method comprises selecting against at least 5 to all of the characteristics.

[22] The methods can comprise, independently or in addition, selecting against amino acid sequences of the desired length having at least one of the following characteristics 1) sequences having at least 5 consecutive amino acids that are identical to an alternative amino
25 acid sequence from an alternative polypeptide that can be different from the candidate polypeptide, 2) posttranslational modification sites, and 3) highly hydrophobic sequences. The posttranslational modification sites can be phosphorylation or glycosylation sites. The methods can also comprise performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence.

30 [23] These and other aspects, features, and embodiments are set forth within this application, including the following Detailed Description and attached drawings. The present invention comprises a variety of aspects, features, and embodiments; such multiple aspects,

features, and embodiments can be combined and permuted in any desired manner. In addition, various references are set forth herein, including in the Cross-Reference To Related Applications, that discuss certain compositions, apparatus, methods, or other information; all such references are incorporated herein by reference in their entirety and for all their teachings and disclosures, regardless of where the references may appear in this application.

BRIEF DESCRIPTION OF THE DRAWING

[24] Figure 1 depicts representative examples of the nucleotide and amino acid sequences of the GPCRs for which antigenic peptides are set forth herein, SEQ ID NOS. 1 - 691.

10 [25] Figure 2 depicts amino acid sequences for the antigenic peptides for the GPCRs herein, SEQ ID NOS. 692-2292.

[26] Figure 3 depicts a listing of GPCRS for which commercially available antibodies are putatively available.

DETAILED DESCRIPTION

15 A. INTRODUCTION AND OVERVIEW

[27] Diseases such as immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases are serious health problems in the modern world. Any improvement in the diagnosis, treatment or other remediation of such diseases is a significant advance for millions of people. The present invention provides methods of identifying and selecting desirable antigenic peptides for GPCRs and other desired target or candidate proteins and polypeptides. The present invention also provides the antigenic peptides themselves, as well as antibodies against the antigenic peptides (and against proteins or polypeptides containing such antigenic peptides), and related diagnostics, antibody-based therapeutics directed to certain diseases and conditions, and other helpful compositions, systems, kits, assays and the like. The compositions, methods, and the like can be useful, for example, as agonists, antagonists, probes, and otherwise as may be desired.

[28] The antigenic peptides have been carefully selected using specific selection criteria and methodologies set forth herein to take advantage of particularly advantageous regions of the GPCRs from which they have been derived to provide unusually specific and

immunogenic antigens. These antigenic peptides are particularly useful for producing highly specific antibodies against the antigenic peptides, which, in turn, also means antibodies that are highly specific for the corresponding GPCRs containing the antigenic peptides. Accordingly, the antigenic peptides of the present invention, and the antibodies produced
 5 therefrom, are particularly useful for high specificity, low noise diagnostics and, in the case of the antibodies, for certain antibody-based therapeutics, as well as methods, kits, systems, and the like incorporating or based on such antigenic peptides or antibodies.

[29] The antibodies produced using the antigenic peptides of the present invention, for example, have a specificity for the corresponding GPCR such that the antibodies can
 10 selectively detect the corresponding GPCR in a sample containing non-desired or contaminating proteins or polypeptides, such as a tissue or blood sample. Preferably, the antibodies have a high specificity such that no significant amounts of such proteins or polypeptides are detected, and further preferably have a specificity such that only insubstantial to essentially zero amounts of non-desirable proteins are detected.

15 [30] The antibodies produced using the antigenic peptides of the present invention, for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole, preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[31] Figure 1 sets forth the DNA and protein sequences for the GPCRs from which the
 20 antigenic peptides of the present invention were derived SEQ ID NOS. 1-691. Figure 2 sets forth the amino acid sequences of exemplary antigenic peptides, SEQ ID NOS. 692-2292. The sequences in Figures 1 and 2 are listed according to SEQ ID NO and LSID, which is an identification number assigned to the given sequence in the LifeSpan Biosciences databases. The sequences in Figure 2 also include an identifier LPID, which is also an identification
 25 number assigned to the given sequence in the LifeSpan Biosciences databases. Figure 3 depicts GPCRs for which it has been reported that antibodies are commercially available, SEQ ID NOS. 1, 3, 5, 11, 13, 15, 21, 23, 25, 27, 29, 31, 35, 37, 39, 41, 43, 45, 49, 51, 53, 57, 59, 61, 63, 65, 67, 69, 70, 71, 73, 75, 77, 79, 83, 85, 97, 99, 101, 103, 105, 107, 113, 115, 117, 121, 125, 135, 139, 143, 145, 147, 151, 155, 157, 159, 161, 169, 171, 173, 175, 177,
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423, 435, 439, 457, 459, 461, 462, 468, 470, 472, 503, 507, 515, 535, 537, 546, 548, 552, 562, 628, 636; Applicants do not represent that any of the antibodies in Figure 3 that such antibodies are actually commercially available nor that they have any significant specificity nor affinity for the GPCRs reported. For GPCRs for which no antigens or antibodies were previously known, the present invention provides valuable antigenic peptides and antibodies (see, e.g., SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.); for GPCRs for which antigens or antibodies are known, the present invention provides improved antigens in the form of antigenic peptides and improved antibodies (see, e.g., SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, which are antigenic peptides derived from GPCRs for which antibodies are reportedly commercially available). The antigenic peptides and antibodies, and uses and assays, etc., related to the antigenic peptides, are discussed further below.

[32] The discussion herein, including the following passages, has been separated by headings for convenience. The disclosure under a given heading is not restricted to that heading. For example, the discussion in the definitions section is a part of the disclosure of the invention, the discussion on antigenic peptides also contains discussion related to probes and diagnostics, and the discussion on antibodies contains discussion related to therapeutic compositions, etc.

B. DEFINITIONS

[33] The following paragraphs provide a non-exhaustive list of definitions of some of the terms and phrases as used herein. All terms used herein, including those specifically described below in this section, are used in accordance with their ordinary meanings unless the context or definition indicates otherwise. Also unless indicated otherwise, except within

the claims, the use of "or" includes "and" and vice-versa. Non-limiting terms are not to be construed as limiting unless expressly stated (for example, "including" means "including without limitation" unless expressly stated otherwise).

[34] The terms set forth in this application are not to be interpreted in the claims as indicating a "means plus function" relationship unless the word "means" is specifically recited in a claim, and are to be interpreted in the claims as indicating a "means plus function" relationship where the word "means" is specifically recited in a claim. Similarly, the terms set forth in this application are not to be interpreted in method or process claims as indicating a "step plus function" relationship unless the word "step" is specifically recited in the claims, and are to be interpreted in the claims as indicating a "step plus function" relationship where the word "step" is specifically recited in a claim.

[35] "Agonist" indicates a substance, such as a molecule or compound, that interacts with a particular GPCR, for example by binding to the GPCR, to activate, increase, or prolong the amount or the duration of the effect of the biological activity or functionality of the GPCR. Agonists include proteins, nucleic acids, carbohydrates, or any other molecules that bind to and positively modulate the effect of the GPCR. Agonists and other modulators of the particular GPCR can be identified using *in vitro* or *in vivo* assays for G protein-coupled receptor expression or G protein-mediated signaling. For example, assays for agonists and other modulators include expressing a particular GPCR in cells or cell membranes, applying putative modulator compounds in the presence or absence of a specific known or putative ligand and then determining the functional effects on the particular GPCR-mediated signaling. Samples or assays comprising a particular GPCR that are treated with a potential agonist or other modulator are compared to control samples without the agonist or other modulator to examine the extent of modulation. Control samples can be assigned a relative activity value for the particular GPCR of 100%. Agonist activity on a particular GPCR is achieved when the G protein-coupled receptor activity value relative to the control is at least about 110%, optionally about 150%, preferably about 200-500%, or about 1000-3000% or higher. Down-modulation (for example by an antagonist) of a particular GPCR is achieved when the particular GPCR activity value relative to the control is at most about 90%, typically about 80%, optionally about 50% or about 25-0% of the 100% value.

[36] "Aggregate," see Complex.

[37] "Algorithm" refers to a detailed sequence of actions to perform to accomplish some task. In computer programming, refers to instructions given to the computer.

[38] "Allele" or "allelic sequence" indicates an alternative form of the gene encoding the GPCR. Alleles may result from at least one mutation in the nucleic acid sequence and may
5 result in altered mRNAs or in polypeptides whose structure or function may or may not be altered. Any given natural or recombinant gene may have none, one, or many allelic forms. Common mutational changes that give rise to alleles are generally ascribed to natural deletions, additions, or substitutions of nucleotides. Each of these types of changes may occur alone or in combination with the others, one or more times in a given sequence.

10 [39] "Altered" nucleic acid sequences encoding the GPCR include those sequences with deletions, insertions, or substitutions of different nucleotides, resulting in a polynucleotide encoding the same GPCR or a polypeptide variant with at least one substantial structural or functional characteristic of the GPCR. Included within this definition are polymorphisms that may or may not be readily detectable using a particular oligonucleotide probe against the
15 polynucleotide encoding the GPCR. "Altered" proteins may contain deletions, insertions, or substitutions of amino acid residues that produce a silent change and result in a functionally equivalent GPCR. Deliberate amino acid substitutions may be made on the basis of similarity in polarity, charge, solubility, hydrophobicity, hydrophilicity, or the amphipathic nature of the residues, as long as the biological or immunological activity of the GPCR is
20 retained. For example, negatively charged amino acids may include aspartic acid and glutamic acid, positively charged amino acids may include lysine and arginine, and amino acids with uncharged polar head groups having similar hydrophilicity values may include leucine, isoleucine, and valine; glycine and alanine; asparagine and glutamine; serine and threonine; and phenylalanine and tyrosine.

25 [40] "Alternative splicing" refers to different ways of cutting and assembling exons to produce mature mRNAs.

[41] "Amino acid" refers generally to any of a class of organic compounds that contains at least one amino group, $-NH_2$, and one carboxyl group, $-COOH$. The alpha-amino acids, $RCH(NH_2)COOH$, are the building blocks from which proteins are typically constructed.
30 Amino acid can also refer to artificial chemical analogues or mimetics of a given amino acid as described, depending on the context.

[42] "Amino acid sequence" refers to a string of amino acids, such as an oligopeptide, peptide, polypeptide, or protein sequence, or a fragment of any of these, including naturally occurring or synthetic molecules and those comprising an artificial chemical analogue or mimetic of a given amino acid. In this context, "biologically active fragments," "biologically functional fragments," "immunogenic fragments," and "antigenic fragments" refer to fragments of the GPCR that are preferably about 15, 25, or 50 or more amino acids in length and that retain a substantial amount of such activity of the GPCR. Where "amino acid sequence" refers to an amino acid sequence of a naturally occurring protein molecule, "amino acid sequence" and like terms are not necessarily limited to the complete native amino acid sequence associated with the recited protein molecule.

[43] "Amplification" indicates the production of additional copies of something, such as a nucleic acid sequence. Amplification can be generally carried out using polymerase chain reaction (PCR) technologies or other technologies such as the cycling probe reaction (CPR) that are well known in the art. See, e.g., Dieffenbach, C. W. and G. S. Dveksler, PCR Primer, a Laboratory Manual, pp.1-5, Cold Spring Harbor Press, Plainview, N.Y. (1995); U.S. Patents Nos. 5,660,988, 5,731,146 and 6,136,533.

[44] "Amplification primers" are oligonucleotides such as natural, analog or artificially created nucleotides that can serve as the basis for the amplification of a selected nucleic acid sequence. They include, for example, both PCR primers and ligase chain reaction oligonucleotides.

[45] "Analog" or "variant" indicates a GPCR or antigenic peptide that has been modified by deletion, addition, modification, or substitution of one or more amino acid residues compared to the wild-type sequence. Analogs encompass allelic and polymorphic variants, and also muteins and fusion proteins that comprise all or a significant part of such GPCR, e.g., covalently linked via side-chain group or terminal residue to a different protein, polypeptide, or moiety (fusion partner). Variants of a particular GPCR protein refer to an amino acid sequence that is altered by one or more amino acids, for example by one or more amino acid substitution, insertion, deletion or modification, or proteins with or without associated native-pattern glycosylation. The variant may have "conservative" changes. Such "conservative" changes generally are well known in the art and readily determinable for a particular GPCR in view of the present application. Conservative changes include, for example, substitutions where a substituted amino acid has similar structural or chemical

properties to the amino acid it replaced (e.g., negatively charged amino acids include aspartic acid and glutamic acid; positively charged amino acids include lysine, arginine, histidine, asparagine, and glutamine; amino acids containing sulfur include methionine and cysteine; polar hydroxy amino acids include serine, threonine, and tyrosine; large hydrophobic amino acids include phenylalanine and tryptophan; small hydrophobic amino acids include alanine, leucine, isoleucine, and valine). A variant may also have "nonconservative" changes which means that the replacement amino acid provides some substantial change in the amino sequence.

[46] A variant preferably retains at least about 90% identity, and more preferably at least about 95% identity. Within certain embodiments, such variants contain alterations such that the ability of the variant to induce an immunogenic response is not substantially eliminated; in some embodiments the ability to an immunogenic response is not substantially diminished. Modifications of amino acid residues may include but are not limited to aliphatic esters or amides of the carboxyl terminus or of residues containing carboxyl side chains, O-acyl derivatives of hydroxyl group-containing residues, and N-acyl derivatives of the amino-terminal amino acid or amino-group containing residues, e.g., lysine or arginine. Guidance in determining which and how many amino acid residues may be substituted, inserted, deleted or modified without diminishing immunological or biological activity may be found in view of the present application using any of a variety of methods and computer programs known in the art, for example, DNASTAR software. Properties of a variant may generally be evaluated by assaying the reactivity of the variant with, for example, antibodies as described herein or evaluating a biological activity characteristic of the native protein as described herein or as known in the art in view of the present application. Certain polynucleotide variants are capable of hybridizing under appropriately stringent conditions to a naturally occurring DNA sequence encoding a particular GPCR protein (or a complementary sequence). Such hybridizing nucleic acid sequences are also within the scope of this invention.

[47] "Antagonist" refers to a molecule which interacts with a particular GPCR, for example by binding to the particular GPCR, and prevents, inactivates, decreases or shortens the amount or the duration of the effect of the biological activity of the GPCR. Antagonists include proteins, nucleic acids, carbohydrates, antibodies, or any other molecules that so affect the GPCR. Antagonists can be identified, for example, using appropriate screens

corresponding to those described for agonists above and elsewhere herein or as would be apparent to those skilled in the art in view of the present application.

[48] "Antibody" indicates one type of binding partner, typically encoded by an immunoglobulin gene or immunoglobulin genes, and refers to, for example, intact
5 monoclonal antibodies (including agonist and antagonist antibodies), polyclonal antibodies, phage display antibodies, and multispecific antibodies (e.g., bispecific antibodies) formed, for example, from at least two intact antibodies. Antibody also refers to fragments thereof, which comprise a portion of an intact antibody, generally the antigen-binding or variable region of the intact antibody that are capable of binding the epitopic determinant. Examples
10 of antibody fragments include Fab, Fab', F(ab')₂, and Fv fragments, diabodies, linear antibodies, single-chain antibody molecules, and multispecific antibodies formed from antibody fragments. See US Patent No. 6,214,984. Antibody fragments may be synthesized by digestion of an intact antibody or synthesized de novo either chemically or utilizing recombinant DNA technology. Antibodies according to the present invention have at least
15 one of adequate specificity, affinity and capacity to perform the activities desired for the antibodies. Antibodies can, for example, be monoclonal, polyclonal, or combinatorial. Antibodies that bind GPCR polypeptides can be prepared using intact polypeptides or using fragments containing small peptides of interest as the immunizing antigen. The polypeptide or oligopeptide used to immunize an animal (e.g., a mouse, a rat, or a rabbit) can be derived
20 from the translation of RNA, or synthesized chemically, and can be conjugated to a carrier protein if desired. Commonly used carriers that are chemically coupled to peptides include bovine serum albumin, thyroglobulin, and keyhole limpet hemocyanin (KLH). The coupled peptide is then used to immunize the animal.

[49] "Antigenic determinant" refers to the antigen recognition site on an antigen (*i.e.*,
25 epitope). Such antigenic determinant may also be immunogenic.

[50] "Antisense" refers to any composition containing a nucleic acid sequence that is complementary to a specific nucleic acid sequence. "Antisense strand" refers to a nucleic acid strand that is complementary to the "sense" strand. Antisense molecules may be produced by any method including transcription or synthesis including synthesis by ligating
30 the gene(s) of interest in a reverse orientation to a desired promoter that permits the synthesis of a complementary strand. Once introduced into a cell, the complementary nucleotides can combine with natural sequences produced by the cell to form duplexes and to block either

transcription or translation. The designation "negative" can refer to the antisense strand, and the designation "positive" can refer to the sense strand.

[51] "Biologically active" or "biologically functional," when referring to an antigenic peptide, indicates that the antigenic peptide induces an immunogenic response specific for the antigenic peptide and thus for the GPCR from which it was obtained. A variant, fragment, etc., of an antigenic peptide is "biologically active" or "biologically functional" if the ability to induce the specific immunogenic response is not substantially diminished. The term "not substantially diminished" means retaining a functionality that is at least about 90% of the functionality of the native antigenic peptide. Appropriate assays designed to evaluate such functionality may be designed based on existing assays known in the art in view of the present application, or on the representative assays provided herein.

[52] "Annotation" refers to the provision of helpful or identifying information about a GPCR or other open reading frame (ORF), such as locus name, key words, and Medline references.

[53] "BLAST" refers to the Basic Local Alignment Search Tool, which is a technique for detecting ungapped sub-sequences that match a given query sequence. BLAST can be used as a preliminary step for detecting ORF boundaries.

[54] "BLASTP" refers to a BLAST program that compares an amino acid query sequence against a protein sequence database.

[55] "BLASTX" refers to a BLAST program that compares the six-frame conceptual translation products of a nucleotide query sequence (both strands) against a protein sequence database. BLASTX can be used to create a sub-database of ORFs which may exist on a contig, and to identify the best match between one of these ORFs and a sequence in an external database.

[56] "Buffer" refers to a component in a solution to provide a buffered solution that resists changes in pH by the action of its acid-base conjugate components.

[57] "CDS" refers to the GenBank DNA sequence entry for coding sequence. A coding sequence is a sub-sequence of a DNA sequence that is surmised to encode a gene. A complete gene coding sequence begins with an "ATG" and ends with a stop codon.

[58] "Clone" in molecular biology refers to a vector carrying an insert DNA sequence.

[59] "Cloning" in molecular biology refers to a recombinant DNA technique used to produce multiple, up to millions or more, copies of a DNA sequence. The DNA sequence is

inserted into a small carrier or vector (e.g., plasmid, bacteriophage, or virus) and inserted into a host cell for amplification or expression.

[60] "Cluster" refers to a group of ORFs related to one another by sequence homology. Clusters are generally determined by a specified degree of homology and overlap (e.g., a stringency).

[61] "Comparison window" indicates a segment of any one of the number of contiguous positions selected from the group consisting of from 20 to 600, usually about 50 to about 200, more usually about 100 to about 150 in which a sequence may be compared to a reference sequence of the same number of contiguous positions after the two sequences are aligned to enhance sequence similarity. Methods of alignment of sequences for comparison will be readily apparent to a person of ordinary skill in the art in view of the present application.

[62] "Complementary" or "complementarity" refers to the natural binding of polynucleotides by base pairing. For example, the sequence "A-G-T" binds to the complementary sequence "T-C-A." Complementarity between two single-stranded molecules may be "partial," such that only some of the nucleic acids bind, or it may be "complete," such that all of the nucleotides of at least one of the single-stranded molecules binds to corresponding nucleotides of the other single-stranded molecule. The degree of complementarity between nucleic acid strands has significant effects on the efficiency and strength of the hybridization between the nucleic acid strands. This can be of particular importance in amplification reactions, which can depend upon binding between nucleic acids strands, and in the design and use of peptide nucleic acid (PNA) molecules.

[63] "Complex," or "aggregate," indicates a dimer or multimer formed between at least two proteins or other macromolecules, for example a GPCR and its ligand.

[64] "Composition" indicates a combination of multiple substances into a mixture.

[65] "Composition comprising a given amino acid sequence" refers broadly to any composition containing the given amino acid sequence. The composition may comprise a dry formulation, an aqueous solution, or a sterile composition.

[66] "Consensus sequence" refers to the sequence that reflects the most common choice of base or amino acid at each position from a series of related DNA, RNA, or protein sequences. Areas of particularly good agreement often represent conserved functional domains. The generation of consensus sequences has typically been subjected to intensive mathematical analysis.

- [67] "Conservative changes" to an amino acid sequence, see Analog.
- [68] "Deletion" refers to a change in the amino acid or nucleotide sequence that results in the absence of one or more amino acid residues or nucleotides.
- [69] "Derivative" refers to chemical modification of an antigenic peptide, or of an antibody specific for and created from the antigenic peptide. A derivative peptide can be modified, for example, by glycosylation or pegylation.
- [70] "Diabodies" refers to one type of antibody comprising small antibody fragments with two antigen-binding sites, which fragments comprise a heavy-chain variable domain (V_H) connected to a light-chain variable domain (V_L) on the same polypeptide chain (V_H - V_L). By using a linker that is too short to allow pairing between the two domains on the same chain, the domains pair with the complementary domains of another chain and create two antigen-binding sites. Diabodies are described, for example, in EP 404,097; WO 93/11161; and Holliger et al., Proc. Natl. Acad. Sci. USA, 90:6444-6448 (1993).
- [71] "Database" refers to a structured format for organizing and maintaining information or data, a collection of data records, in a computer-readable form that can be rapidly and easily retrieved. A database is typically stored in a computer-readable memory. Records may comprise web pages, graphics, audio files, text files, or links. Records may or may not be further broken into fields. Database records are usually indexed and come with a search interface to find records of interest.
- [72] "E-value" refers to a result of a FASTA analysis. The number indicates the probability that a match between two sequences is due to random chance.
- [73] "Expression vector" is a specialized vector constructed so that the gene inserted in the vector can be expressed in the cytoplasm of a host cell.
- [74] "FASTA" refers to a modular set of sequence comparison programs used to compare an amino acid or DNA sequence against all entries in a sequence database. FASTA was written by Professor William Pearson of the University of Virginia Department of Biochemistry. The program uses the rapid sequence algorithm described by Lipman and Pearson (1988) and the Smith-Waterman sequence alignment protocol. FASTA performs a protein to protein comparison.
- [75] "FASTX" refers to a module of the FASTA protocol used to define optimal ORF boundaries while searching for genes. FASTX uses a nucleotide to protein sequence comparison.

[76] "Fragment," see Portion.

[77] "GenBank" refers to a family of public databases comprising nucleic acid and amino acid sequence information, including the GenPept bacterial peptide database.

[78] "Gene" refers to the basic unit of heredity that carries the genetic information for a given RNA or protein molecule. A gene is composed of a contiguous stretch of DNA and contains a coding region that is flanked on each end by regions that are transcribed but not translated. A gene is a segment of DNA involved in producing a biologically active or biologically functional polypeptide chain.

[79] "Heterologous" indicates a nucleic acid that comprises two or more subsequences that are not found in the same relationship to each other in nature. For instance, the nucleic acid is typically recombinantly produced, having two or more sequences from unrelated genes arranged to make a new functional nucleic acid, *e.g.*, a promoter from one source and a coding region from another source. Similarly, a heterologous protein indicates that the protein comprises two or more subsequences that are not found in the same relationship to each other in nature (*e.g.*, a fusion protein).

[80] "Hit Threshold" refers to a pre-set E-value or P-value for evaluating sequence matches. For example, this value can be set at $1e-6$ for finding genes; and at $1e-15$ for clustering genes.

[81] "Homology" refers to a degree of complementarity. There may be partial homology or complete homology. The word "identity" may substitute for the word "homology." A partially complementary sequence that at least partially, and substantially, inhibits a corresponding sequence from hybridizing to a target nucleic acid is referred to as "substantially homologous." The inhibition of hybridization of the completely complementary sequence to the target sequence may be examined using a hybridization assay (*e.g.*, Southern or Northern blot, *in situ* hybridization, solution hybridization) under conditions of reduced stringency. A substantially homologous sequence or hybridization probe will compete for and inhibit the binding of a completely homologous sequence to the target sequence under stringency conditions that inhibit non-specific binding but permit specific binding. The absence of non-specific binding may be tested by the use of a second target sequence which lacks even a partial degree of complementarity (*e.g.*, less than about 30% homology or identity). In the absence of non-specific binding, the substantially

homologous sequence or probe will not hybridize to the second, non-complementary target sequence.

[82] **"Humanized antibody"** refers to antibody molecules in which the amino acid sequence in the non-antigen-binding regions has been altered so that the antibody more closely resembles a human antibody, and still retains its original binding ability. Typically, humanized antibodies are human immunoglobulins (recipient antibody) in which residues from a complementarity-determining region (CDR) of the recipient are replaced by residues from a CDR of a non-human species (donor antibody) such as mouse, rat or rabbit having the desired specificity, affinity, and capacity. In some instances, Fv framework residues of the human immunoglobulin are replaced by corresponding non-human residues. Furthermore, humanized antibodies may comprise residues that are found neither in the recipient antibody nor in the imported CDR or framework sequences. These modifications are typically made to further refine and optimize antibody performance. In general, the humanized antibody will comprise substantially all of at least one, and typically two, variable domains, in which all or substantially all of the CDR regions correspond to those of a non-human immunoglobulin and all or substantially all of the framework (FR) regions are those of a human immunoglobulin sequence. The humanized antibody optimally also will comprise at least a portion of an immunoglobulin constant region (Fc), typically that of a human immunoglobulin. For further details see, *e.g.*, Jones et al., *Nature*, 321:522-525 (1986); Reichmann et al., *Nature*, 332:323-329 (1988); and, Presta, *Curr. Op. Struct. Biol.*, 2:593-596 (1992).

[83] **"Identity,"** see Homology.

[84] **"Immunocytochemistry"** refers to the use of immunologic methods, including a specific antibody, to study cell constituents.

25 [85] **"Immunohistochemistry"** refers to the use of immunologic methods, including a specific antibody, to study specific antigens in tissue slices.

[86] **"Immunolocalization"** refers to the use of immunologic methods, including a specific antibody, to locate molecules or structures within cells or tissues.

[87] **"Immunologically active"** refers to the capability of a natural, recombinant, or synthetic GPCR, or any immunogenic fragment thereof, to induce a specific immune response in appropriate animals or cells and to bind with specific antibodies. A polypeptide is "immunologically active" if it is recognized by (*e.g.*, specifically bound by) a B-cell or T-

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cell surface antigen receptor. Immunological activity may generally be assessed using well known techniques, such as those summarized in Paul, Fundamental Immunology, 3rd ed., 243-247, Raven Press (1993) and references cited therein. Such techniques include screening polypeptides derived from the native polypeptide for the ability to react with antigen-specific antisera or T-cell lines or clones, which may be prepared in view of the present application using well known techniques. Preferably, an immunologically active portion of a GPCR protein reacts with such antisera or T-cells at a level that is not substantially lower than the reactivity of the full-length polypeptide (*e.g.*, in an ELISA or T-cell reactivity assay). Such screens may generally be performed using methods well known to those of ordinary skill in the art in view of the present application, such as those described in Harlow and Lane, Antibodies: A Laboratory Manual, Cold Spring Harbor Press (1988). B-cell and T-cell epitopes may also be predicted via computer analysis.

[88] "Immune response" refers to any of the body's immunologic reactions to an antigen such as antibody formation, cellular immunity, hypersensitivity, or immunological tolerance.

[89] "Insertion" and "addition" when referring to a change in a nucleotide or amino sequence indicate the addition of one or more nucleotides or amino acid residues, respectively, to the sequence.

[90] "*In situ* hybridization" refers to use of a nucleic acid probe, typically a DNA or RNA probe, to detect the presence of a DNA or RNA sequence in target cells such as cloned bacterial cells, cultured eukaryotic cells, or tissue samples. *In situ* hybridization can also be used for locating genes on chromosomes. The process can be performed by preparing a microscope slide with cells in metaphase of mitosis, then treating slide with a weak base to denature the DNA. Next, pour radioactively labeled probe onto the slide under hybridizing conditions, expose the slide to a photographic emulsion for a suitable period such as a few days or weeks, then develop the emulsion.

[91] "Isoform" refers to different forms of a protein that may be produced from different genes or from the same gene by alternative RNA splicing.

[92] "Isolated" generally means that the material is removed from its original environment (*e.g.*, the natural environment if it is naturally occurring).

[93] "Library" refers physically to a pool of nucleic acid fragments that has been propagated in a cloning vector. Library can also refer to an electronic collection of genomic

or proteomic sequence data, including raw sequences, contigs, ORFs and loci from a specific organism.

[94] "Ligand" refers to an ion or molecule that binds with another molecule, such as a GPCR, to form a macromolecule such as a receptor-ligand complex. An "endogenous ligand" refers to a native ligand that binds to the receptor of the GPCR and modulates biological activity or functionality of the GPCR in its native environment. A "specific ligand" is a ligand able to bind to a particular GPCR and modulate the biological activity or functionality of the particular GPCR; an endogenous ligand is one example of a specific ligand.

10 [95] "Microarray" refers to an array of distinct nucleic acid or amino acid molecules arrayed on a substrate, such as paper, nylon or any other type of membrane, filter, chip, glass slide, or any other suitable solid support. Microarrays can also refer to tissue microarrays, composed of small tissue pieces arranged on a slide. U.S. Pat. No. 5,143,854 and PCT Patent Publication Nos. WO 90/15070 and 92/10092.

15 [96] "Mimetic" refers to a molecule, *e.g.*, a peptide or non-peptide agent, such as a small molecule, that is able to perform the same biological activity as a certain biologically active agent. For example, some mimetics are molecules comprising the same biological function or activity as the particular GPCR. The structure of the mimetic can be developed from knowledge of the structure of the particular GPCR or portions thereof. For appropriate
20 mimetics, the mimetic is able to effect some or all of the actions of a given antigenic peptide or antibodies against the antigenic peptide. Such mimetics can be made, in view of the present application, using techniques well known in the art, *see, e.g.*, U.S. Patent Nos. 6,197,752; 6,093,697; 6,207,643; 5,849,323, and can be included in the various processes, methods, and systems, etc., described herein, such as databases, binding partner assays,
25 probes, medicaments, and therapeutics.

[97] "Modulate" refers to controllably changing the activity of a substance or other item, such as the biological activity of a GPCR, antigenic peptide or corresponding antibody. For example, modulation may cause an increase or a decrease in protein activity, binding characteristics, or other biological, functional, or immunological properties of the GPCR.

30 [98] "Monoclonal antibody" refers to an antibody obtained from a population of substantially homogeneous antibodies, *e.g.*, the individual antibodies comprising the population are identical except for possible naturally occurring mutations that may be present

in minor amounts. Monoclonal antibodies include "chimeric" antibodies (immunoglobulins) in which a portion of the heavy or light chain is identical with or homologous to corresponding sequences in antibodies derived from a particular species or belonging to a particular antibody class or subclass, while the remainder of the chain(s) is identical with or homologous to corresponding sequences in antibodies derived from another species or belonging to another antibody class or subclass, as well as fragments of such antibodies, so long as they exhibit the desired biological activity. U.S. Pat. No. 4,816,567; Morrison et al., P.N.A.S. USA, 81:6851-6855 (1984). Monoclonal antibodies are highly specific, being directed against a single antigenic site. As a matter of distinction, polyclonal antibody preparations typically include different antibodies directed against different determinants (epitopes) of a target antigen whereas each monoclonal antibody is directed against a single determinant on the antigen. Monoclonal antibodies can be synthesized by hybridoma culture, uncontaminated by other immunoglobulins. For example, the monoclonal antibodies to be used in accordance with the present invention may be made by the hybridoma method first described by Kohler and Milstein, Nature, 256:495 (1975), or may be made by recombinant DNA methods. See, e.g., U.S. Pat. No. 4,816,567. Monoclonal antibodies may also be isolated from phage antibody libraries using the techniques described in Clackson et al., Nature, 352:624-628 (1991), and Marks et al., J. Mol. Biol., 222:581-597 (1991), for example. The modifier "monoclonal" indicates the character of the antibody as being obtained from a substantially homogeneous population of antibodies, and is not to be construed as requiring production of the antibody by any particular method.

[99] "Nonconservative" changes to an amino acid sequence, see Analog.

[100] "Northern blotting" or "Northern analysis" refers to a method used to detect specific RNA sequences. For example, the process can be performed by electrophoresing RNA in a denaturing agarose gel, transferring the gel onto a membrane, and hybridizing with a labeled RNA or DNA probe.

[101] "Nucleic acid sequence" refers to a polymer comprising a string of "nucleic acids" such as an oligonucleotide, or a polynucleotide or fragment thereof. The nucleic acid sequence can be from DNA or RNA of genomic or synthetic origin, may be single-stranded or double-stranded, and may represent the sense or the antisense strand. A nucleic acid sequence can also be a PNA or a DNA-like or RNA-like material. Unless stated otherwise,

the term encompasses nucleic acids containing known analogues or mimetics of natural nucleotides that have similar binding properties as the reference nucleic acid.

[102] "Oligonucleotide" refers to a nucleic acid sequence, generally between 6 nucleotides to 60 nucleotides, preferably about 15 to 30 nucleotides, and most preferably about 20 to 25 nucleotides, that can, for example, be used in PCR or other nucleic acid amplification or in a hybridization assay or microarray. "Oligonucleotide" includes "amplimers," "primers," "oligomers," and "probes," as these terms are commonly defined in the art. Oligonucleotides can be chemically synthesized. Such synthetic oligonucleotides may have no 5' phosphate and if so will not ligate to another oligonucleotide without adding a phosphate, typically by using an ATP in the presence of a kinase. A synthetic oligonucleotide will ligate to a fragment that has not been dephosphorylated.

[103] "Operably linked" or "operably connected" indicates that one element of an apparatus, system, or method, etc., is connected to another element of the apparatus, system, or method, etc., such that the two elements are able to perform their intended purposes. For example, when a promoter is linked to a polynucleotide to allow transcription of the polynucleotide, it is "operably linked" to the polynucleotide.

[104] "Orphan receptor" refers to a receptor for which the endogenous ligand or other ligands inducing biological activity are not known.

[105] "PCR" or "polymerase chain reaction" refers to an *in vitro* method that uses oligonucleotide primers, enzymes, and a series of repetitive temperature cycles to generate millions of copies of a nucleic acid, typically DNA, from an original specimen of a specific DNA sequence, which specimen may be present only in a trace amount.

[106] "Plasmids" refers to extrachromosomal genetic elements composed of DNA or RNA found in both eukaryotic and prokaryotic cells that can propagate themselves autonomously in cells. Plasmids can be used as carriers or vectors to clone DNA molecules. They are designated by a lower case p preceded or followed by capital letters or numbers. The starting plasmids herein are either commercially available, publicly available on an unrestricted basis, or can be constructed from available plasmids in accord with published procedures. In addition, equivalent plasmids to those described are known in the art and will be apparent to the ordinarily skilled artisan in view of the present application.

[107] "Polynucleotide encoding a polypeptide" indicates a polynucleotide that includes only the coding sequence for the polypeptide as well as polynucleotides that include additional coding or non-coding sequence.

[108] "Portion" or "fragment" with regard to a protein (as in "a portion of a given protein") refers to parts of that protein, a subsequence of the complete amino acid sequence of the receptor containing at least about 8, usually at least about 12, more typically at least about 20, and commonly at least about 30 or more contiguous amino acid residues, up to the entire amino acid sequence minus one amino acid. Thus, a protein "comprising at least a portion of the amino acid sequence of SEQ ID NO:XX" or a protein "comprising at least a portion of the amino acid sequence of a particular GPCR" encompasses the full-length protein and fragments thereof. A portion or fragment of a nucleic acid refers to nucleic acid sequences that are greater than about 12 nucleotides in length, and typically at least about 60 or 100 nucleotides, generally at least about 1000 nucleotides, or at least about 10,000 nucleotides in length, up to the entire nucleic acid sequence minus one nucleic acid.

[109] "P-value" is a statistical term used to indicate the probability that an event is due to random chance. When used in reference to a result of BLAST searches, the number indicates the probability that a match between two sequences is due to random chance.

[110] "Receptor" refers to a molecular structure, typically within a cell or on a cell surface, that selectively binds a specific substance (a ligand) and a specific physiologic effect that accompanies the binding. GPCRs are a type of cell-surface receptor, which means a protein in, on, or traversing the cell membrane (in the case of GPCRs, traversing the cell membrane) that recognizes and binds to specific molecules in the surrounding fluid. The binding to a receptor may serve to transport molecules into the cell's interior or to signal the cell to respond in some way.

[111] "Recombinant" refers to both a method of production and a structure. Some recombinant nucleic acids and proteins are made by the use of recombinant DNA techniques that involve human intervention, either in manipulation or selection. Others are made by fusing two fragments that are not naturally contiguous to each other. Engineered vectors are encompassed, as well as nucleic acids comprising sequences derived using any synthetic oligonucleotide process.

[112] "Sample" is used in its usual broad sense. For example, a biological sample suspected of containing nucleic acids encoding the GPCR, or fragments thereof, or the GPCR

itself, may comprise a bodily fluid; an extract from a cell, chromosome, organelle, or membrane from a cell; a cell; genomic DNA, RNA, or cDNA (in solution or bound to a solid support); a tissue; a tissue print, and the like. Biological sample refers to samples from a healthy individual as well as to samples from a subject suspected of having or susceptible to having, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

[113] "Second messengers" refer to intracellular signaling molecules such as cyclic AMP (cAMP), inositol triphosphate, diacylglycerol, or Ca^{2+} . Second messengers, in turn, alter the

activity of other intracellular proteins such as cAMP-dependent protein kinase and Ca^{2+} /calmodulin-dependent protein kinases, leading to the transduction and amplification of the original extracellular signal.

[114] "Southern blotting" refers to a method for detecting specific DNA sequences via hybridization. For example, a DNA sample can be electrophoresed in a denaturing agarose gel, transferred onto a membrane, and hybridized with a complementary nucleic acid probe. "Southern" when used in reference to a database indicates an electronic analog of the laboratory technique, which analysis can be used to identify libraries in which a given DNA sequence, such as a gene, EST, or ORF is present. The terms "Northern" and "Western" likewise can be used for electronic analogs to the respective laboratory techniques described above.

[115] "Specific binding" or "specifically binding" refers to an interaction between protein or peptide and a certain substance, such as its specific ligand or antibody, and in some cases its agonists or antagonists. The interaction is dependent upon the presence of a particular structure of the protein recognized by the binding molecule (*e.g.*, the antigenic determinant or epitope). For example, if an antibody specifically binds epitope "A," the presence of a polypeptide containing epitope A or the presence of free unlabeled epitope A will reduce the amount of labeled epitope A that binds to the antibody in a reaction containing free labeled epitope A and the antibody. Conversely, the presence of a polypeptide that does not contain epitope A will not reduce the amount of labeled epitope A that binds to the antibody. Highly specific binding indicates that the protein or peptide binds to its particular ligand, antibody, etc., and does not bind in a significant amount to other proteins present in the sample. Typically, a specific or selective reaction will be at least twice the background signal or noise and more typically more than 10 to 100 times the background signal or noise.

[116] "Stringent conditions" refer to conditions that permit hybridization between complementary polynucleotide sequences. Suitably stringent conditions can be defined by, for example, the concentrations of salt or formamide in the prehybridization and hybridization solutions, or by the hybridization temperature. Stringency can be increased by reducing the concentration of salt, increasing the concentration of formamide, or raising the hybridization temperature. Stringent conditions are dependent upon the type of probe as well as the length of the probe and the GC content of the probe. "Stringent conditions" typically

occur within a range from about $T_m - 5^\circ\text{C}$ (5°C below the melting temperature (T_m) of the probe) to about $T_m - 20 - 25^\circ\text{C}$ for a cRNA probe and to about $T_m - 15^\circ\text{C}$ for an oligonucleotide probe. **"Highly stringent conditions"** refers to conditions under which a probe will hybridize to its target sequence, typically in a complex mixture of nucleic acid sequences, but will not substantially hybridize to other sequences. One example of high stringency conditions for a cRNA probe that is 1,000 nucleotides in length and has a GC content of about 60% is about $55 - 65^\circ\text{C}$ in 50% formamide, 0.1 X SSC, and 200 $\mu\text{g/ml}$ sheared and denatured salmon sperm DNA. One example of low stringency conditions for the same probe in 50% formamide, 0.1 X SSC, and 200 $\mu\text{g/ml}$ sheared and denatured salmon sperm DNA would be $30 - 35^\circ\text{C}$. **"Very highly stringent conditions"** indicates that there must be complete identity between the sequences. The temperature range corresponding to a particular level of stringency can be narrowed further by calculating the purine to pyrimidine ratio of the nucleic acid of interest and adjusting the temperature accordingly. Variations on and modifications of the above ranges and conditions will be readily appreciated by those of skill in the art in view of the present application. As will be understood by those of skill in the art in view of the present application, the stringency of hybridization can be altered to identify or detect identical or related polynucleotide sequences. One guide for nucleic acid hybridization is Tijssen, Laboratory Techniques in Biochemistry and Molecular Biology-v.24 Hybridization with Nucleic Acid Probes, Part I "Overview of principles of hybridization and the strategy of nucleic acid assays" (New York: Elsevier 1993).

[117] **"Substantially purified"** refers to nucleic acid or amino acid sequences that are removed from their natural environment and are separated from other components from such natural environment, and are at least about 60% free, preferably about 75% or 85% free, and most preferably about 90%, 95% or 99% free from such other components with which they are naturally associated. Substantially purified preferably indicates a substantially homogeneous state and can be in either a dry or aqueous solution or other composition as desired. Purity and homogeneity can be assayed by standard methods, for example on a mass or molar basis, using analytical chemistry techniques such as polyacrylamide gel electrophoresis or high performance liquid chromatography.

[118] "Substitution" when referring to a change in a nucleotide or amino sequence indicates the replacement of one or more nucleotides or amino acids by different nucleotides or amino acids, respectively.

[119] "Variant," see Analog.

5 [120] "Western blotting" or "Western analysis" refers to a method for detecting specific protein sequences. For example, the process can be performed by electrophoresing a protein mixture in a denaturing agarose or acrylamide gel, transferring the mixture onto a membrane, and incubating it with an antibody raised against the protein of interest.

[121] Other terms and phrases are defined in other portions of this application.

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C. SELECTION OF DESIRED ANTIGENIC PEPTIDES FOR GPCRs AND OTHER POLYPEPTIDES

[122] The present invention provides improved antigenic peptides, for example as set forth in Figure 2, SEQ ID NOS. 692-2292, and improved methods of identifying such
15 antigenic peptides from known or publicly available sequences of polypeptides or proteins, i.e., from a candidate polypeptide sequence. Polypeptide and protein are used in their traditional sense to indicate lengthy amino acid molecules, whereas the antigenic peptide has a length significantly less than the length of the corresponding polypeptide or protein such that the antigenic peptide is capable of providing significantly improved antigenicity relative
20 to the corresponding polypeptide or protein, typically improved specificity, affinity or avidity. The candidate polypeptide can be, for example, a human protein or polypeptide, a naturally occurring protein or polypeptide or a synthetic or recombinant protein or polypeptide.

[123] The antigenic peptides are typically 5 to about 100 amino acids in length, preferably
25 6 to about 50 amino acids, and further preferably 7 to about 20 amino acids. The antigenic peptides include short antigenic amino acid sequences (*i.e.*, peptides comprising only a portion of an antigenic sequence as set forth in Figure 2 or as identified using the methods described herein, plus an insignificant number of additional amino acids at one or both ends, where insignificant indicates that the extra amino acids do not substantially interfere with the
30 antigenicity of the antigenic peptide). Such short antigenic peptides can be identical to at least 5, 6, 7 or more consecutive amino acids of the sequences herein or identified using the methods described herein, or can have one or two (or more, with increasing length)

conservative amino acid substitution for antigenic peptides comprising more than 6 or 7 consecutive amino acids of the sequences herein or identified using the methods described herein. Antigenic peptides and sequences, and related antibodies and assays and the like, are discussed further elsewhere herein with regard to GPCRs, but such discussions applies to all
5 antigenic peptides produced according to the methods herein, including proteins and polypeptides such as kinases, phosphatases and any other desired protein or polypeptide.

[124] The identification or selection methods comprise searching the candidate polypeptide sequence using a comparison window of the desired length, then selecting against or rejecting amino acid sequences of the length and having at least 1 characteristic
10 selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8) tryptophan, and 9) at least five consecutive amino acids comprising no charged amino acids. Preferably, at least 5, 7, 8, or all of the characteristics are selected.

15 [125] The identification or selection methods can also comprise selecting against amino acid sequences having at least 5 consecutive amino acids that are identical to an alternative amino acid sequence from an alternative polypeptide, i.e., some polypeptide other than the candidate polypeptide from which the selected antigen was derived, that is different from the candidate polypeptide, posttranslational modification sites, or highly hydrophobic sequences,
20 which indicates sequences adequately hydrophobic to be located in a lipid membrane such as a cellular membrane. The posttranslational modification sites can be phosphorylation or glycosylation sites.

[126] The methods can further comprise performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence. Exemplary BLAST-type and FAST-type
25 analyses are described above, including BLAST, BLASTP, BLASTX, FASTA, and FASTX.

D. GENERAL DISCUSSION OF ANTIGENIC PEPTIDES RELATED TO PARTICULAR GPCRS

[127] ANTIGENIC PEPTIDES GENERALLY:

30 [128] The present invention includes antigenic peptides able to induce specific immunogenic responses, and corresponding binding partners. Such antigenic peptides and

binding partners can be cloned, expressed, isolated, purified, and otherwise obtained or manipulated according to routine methods known in the art in view of the present application.

[129] The present invention further relates to antigenic peptides having an amino acid sequence from a particular GPCR, including analogs, mimetics, fragments, derivatives, and the like of such antigenic peptides. See SEQ ID NOS. 1-2292, Figures 1-3. The antigenic peptides may be recombinant, natural or synthetic. The antigenic peptides include (i) antigenic peptides in which one or more of the amino acid residues are substituted with a conserved or non-conserved amino acid residue (preferably a conserved amino acid residue) and such substituted amino acid residue may or may not be one encoded by the genetic code, (ii) antigenic peptides in which one or more of the amino acid residues includes a substituent group, (iii) antigenic peptides in which the mature polypeptide is complexed (e.g., fused or otherwise bonded) with another compound, such as a compound to increase the half-life of the polypeptide (for example, polyethylene glycol), and (iv) antigenic peptides in which additional amino acids are fused to the antigenic peptide. Preparing and using such analogs, etc., are within the scope of those skilled in the art in view of the present application. The antigenic peptides additionally include antigenic peptides that have at least about 90% identity to the given antigenic peptide, and preferably at least about 95% identity to the antigenic peptide. The antigenic peptides additionally include antigenic peptides that contain at least five, six, seven or more consecutive amino acids that are identical to the given antigenic peptide, as well as antigenic peptides that contain at least six, seven, eight or more consecutive amino acids that are identical to the given antigenic except for one or two conservative changes within this such stretch of amino acids. The antigenic peptides of the present invention can be produced by peptide synthesis.

[130] EXPRESSION PROFILES BASED ON PROTEINS:

[131] An expression profile of a particular GPCR in one or more tissues can be made using antibodies or other binding partners produced using the antigenic peptides herein, then using traditional approaches such as Western blotting, immunohistochemistry analysis, protein array, ligand-binding studies, radioimmunoassay (RIA), and high performance liquid chromatography (HPLC), and immunohistochemistry analysis. H&E staining and other analyses can be used in combination with such immunologically-based analyses.

[132] SCREENING FOR ACTIVITY:

[133] The activity or functionality of an antigenic peptide can be measured using any of a variety of assays known in the art. Similarly, the specificity or affinity of an antibody or other binding partner made using the antigenic peptide can be measured using any of a variety of assays known in the art

5 [134] The activity or functionality of a particular GPCR may be measured using any of a variety of functional assays in which activation of the receptor in question results in an observable change in the level of some second messenger system, including but not limited to adenylyl cyclase, calcium mobilization, arachidonic acid release, ion channel activity, inositol phospholipid hydrolysis, or guanylyl cyclase. Heterologous expression systems utilizing
10 appropriate host cells to express the nucleic acid of the subject invention are used to obtain the desired second messenger coupling. Receptor activity may also be assayed in an oocyte expression system.

[135] PROTEIN PURIFICATION:

[136] The antigenic peptides and proteins or polypeptides containing them can be purified
15 by standard methods, including but not limited to salt or alcohol precipitation, preparative disc-gel electrophoresis, isoelectric focusing, high pressure liquid chromatography (HPLC), reversed-phase HPLC, gel filtration, cation and anion exchange, partition chromatography, and countercurrent distribution. Suitable purification methods will be readily apparent to those skilled in the art in view of the present application and are disclosed, *e.g.*, in Guide to
20 Protein Purification, Methods in Enzymology, Vol. 182, M. Deutscher, Ed., Academic Press, New York, NY (1990). Purification steps can be followed as part of carrying out assays for ligand binding activity. Particularly where a particular GPCR is being isolated from a cellular or tissue source, it is preferable to include one or more inhibitors of proteolytic enzymes in the assay system, such as phenylmethylsulfonyl fluoride (PMSF).

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**E. CERTAIN ASSAYS, ANTIBODIES, PROBES, THERAPEUTICS, AND
OTHER SYSTEMS AND ASPECTS, OF THE INVENTION**

**1. SYSTEMS AND METHODS FOR SCREENING FOR A
PARTICULAR GPCR OR ANTIGENIC PEPTIDE**

30 [137] **SCREENING FOR ANTIGENIC PEPTIDES:**

[138] As noted elsewhere herein, the present invention provides antigenic peptides and antibodies that are specific for a particular GPCR. The invention also provides systems and

methods for using or detecting such peptides, and antibodies against such peptides or corresponding GPCRs in a sample. The assays are based on the detection of the antigenic peptides, typically as they are displayed by the particular GPCR, or the detection of antibodies produced against the particular antigenic peptides and corresponding GPCRs.

5 **[139] SCREENING FOR/WITH ANTIGENIC PEPTIDES:**

[140] Many assays are characterized by the ability of antigenic peptides for a particular GPCR to be bound by antibodies against them, and the ability of antibodies produced against such antigenic peptides to bind to antigens or epitopes of the particular GPCR in a sample. Some exemplary assays are described below and elsewhere herein.

10 **[141] LIST OF ASSAYS:**

[142] A variety of assays can detect antibodies that bind specifically to the desired protein in or from a sample, or detect a desired protein bound to one or more antibodies in or from the sample. Exemplary assays are described in detail in *Antibodies: A Laboratory Manual*, Harlow and Lane (eds.), Cold Spring Harbor Laboratory Press (1988). Representative
15 examples of such assays include: countercurrent immuno-electrophoresis (CIEP), radioimmunoassays, radioimmunoprecipitations, enzyme-linked immunosorbent assays (ELISA), dot blot assays, inhibition or competition assays, sandwich assays, immunostick (dip-stick) assays, simultaneous assays, immunochromatographic assays, immunofiltration assays, latex bead agglutination assays, immunofluorescent assays, biosensor assays, and
20 low-light detection assays. *See* U.S. Pat. Nos. 4,376,110 and 4,486,530; WO 94/25597; WO/25598.

[143] ENZYME-LINKED IMMUNOSORBENT ASSAYS (ELISA):

[144] One assay for the detection of a particular GPCR is a sandwich assay such as an enzyme-linked immunosorbent assay (ELISA). In one preferred embodiment, the ELISA
25 comprises the following steps: (1) coating the particular GPCR antigenic peptide onto a solid phase, (2) incubating a sample suspected of containing anti-particular GPCR antibodies with the antigenic peptide coated onto the solid phase under conditions that allow the formation of an antigen-antibody complex, (3) adding an anti-antibody (such as anti-IgG) conjugated with a label to be captured by the resulting antigen-antibody complex bound to the solid phase,
30 and (4) measuring the captured label and determining therefrom whether the sample contains anti-particular GPCR antibodies.

[145] IMMUNOFLUORESCENCE ASSAY:

[146] A fluorescent antibody test (FA-test) uses a fluorescently labeled antibody able to bind to one of the proteins of the invention. For detection, visual determinations are made by a technician using fluorescence microscopy, yielding a qualitative result. In one embodiment, this assay is used for the examination of tissue samples or histological sections.

5 [147] **BEAD AGGLUTINATION ASSAYS:**

[148] In latex bead agglutination assays, antibodies to one or more of the antigenic peptides of the present invention are conjugated to latex beads. The antibodies conjugated to the latex beads are then contacted with a sample under conditions permitting the antibodies to bind to desired proteins in the sample, if any. The results are then read visually, yielding a
10 qualitative result. In some embodiments, as with certain other assays, this format can be used in the field for on-site testing.

[149] **ENZYME IMMUNOASSAYS:**

[150] Enzyme immunoassays (EIA) include a number of different assays that can use the antibodies described in the present application. For example, a heterogeneous indirect EIA
15 uses a solid phase coupled with an antibody of the invention and an affinity purified, anti-IgG immunoglobulin preparation. The solid phase can be a polystyrene microtiter plate. The antibodies and immunoglobulin preparation are then contacted with the sample under conditions permitting antibody binding, which conditions are well known in the art. The results of such an assay can be read visually or using a device such as a spectrophotometer,
20 such as an ELISA plate reader, to yield a quantitative result. An alternative solid phase EIA format includes plastic-coated ferrous metal beads able to be moved during the procedures of the assay by means of a magnet. Yet another alternative is a low-light detection immunoassay format. In this highly sensitive format, the light emission produced by appropriately labeled bound antibodies are quantified automatically. Preferably, the reaction
25 is performed using microtiter plates.

[151] In an alternative embodiment, a radioactive tracer is substituted for the enzyme-mediated detection in an EIA to produce a radioimmunoassay (RIA).

[152] **SANDWICH ASSAY:**

[153] In a capture-antibody sandwich enzyme assay, the desired protein is bound between
30 an antibody attached to a solid phase, preferably a polystyrene microtiter plate, and a labeled antibody. The results can be measured, for example, using a spectrophotometer, such as an ELISA plate reader.

[154] SEQUENTIAL AND SIMULTANEOUS ASSAYS:

[155] In a sequential assay format, reagents are allowed to incubate with the capture antibody in a stepwise fashion. The test sample is first incubated with the capture antibody. Following a wash step, incubation with the labeled antibody occurs. In a simultaneous assay, the two incubation periods described in the sequential assay are combined. This eliminates one incubation period plus a wash step.

[156] IMMUNOSTICK (DIP-STICK) ASSAYS:

[157] A dipstick/immunostick format is essentially an immunoassay using a polystyrene paddle or dipstick instead of a polystyrene microtiter plate as the solid phase. Reagents are the same and the format can either be simultaneous or sequential.

[158] IMMUNOCHROMATOGRAPHIC ASSAYS:

[159] In a chromatographic strip test format, a capture antibody and a labeled antibody are dried onto a chromatographic strip, which typically comprises nitrocellulose or high porosity nylon bonded to cellulose acetate. The capture antibody is usually spray dried as a line at one end of the strip. At this end, there is an absorbent material that is in contact with the strip. At the other end of the strip, the labeled antibody is deposited in a manner that prevents it from being absorbed onto the membrane. Usually, the label attached to the antibody is a latex bead or colloidal gold. The assay may be initiated by applying the sample immediately in front of the labeled antibody.

[160] IMMUNOFILTRATION ASSAYS:

[161] Immunofiltration/immunoconcentration formats combine a large solid-phase surface with directional flow of sample/reagents, which concentrates and accelerates the binding of antigen to antibody. In an exemplary format, the test sample is preincubated with a labeled antibody, and then applied to a solid phase such as fiber filters, nitrocellulose membranes, or the like. The solid phase can also be precoated with latex or glass beads coated with capture antibody. Detection of analyte is the same as that in a standard immunoassay. The flow of sample/reagents can be modulated by either vacuum or the wicking action of an underlying absorbent material.

[162] BIOSENSOR ASSAYS:

[163] A threshold biosensor assay is a sensitive, instrumented assay amenable to screening large numbers of samples at low cost. In one embodiment, such an assay comprises the use of light-addressable potentiometric sensors wherein the reaction involves

the detection of a pH change due to binding of the desired protein by capture antibodies, bridging antibodies, and urease-conjugated antibodies. Upon binding, a pH change is effected that is measurable by translation into electrical potential (μ volts). The assay typically occurs in a very small reaction volume, and is very sensitive; the reported detection
5 limit of the assay is 1,000 molecules of urease per minute.

2. ANTIBODIES

[164] ANTIBODIES GENERATED AGAINST A PARTICULAR ANTIGENIC PEPTIDE AND ITS CORRESPONDING GPCR:

10 **[165]** Highly specific, high affinity or antibodies against a particular GPCR or other polypeptide can be generated using the antigenic peptides herein and using antibody generation techniques as described herein or elsewhere. The antibodies produced using the antigenic peptides of the present invention, for example, have a specificity for the corresponding GPCR such that the antibodies can selectively detect the corresponding GPCR
15 in a sample containing non-desired or contaminating proteins or polypeptides, such as a tissue or blood sample. Preferably, the antibodies have a high specificity such that no significant amounts of such proteins or polypeptides are detected, and further preferably have a specificity such that only insubstantial to essentially zero amounts of non-desirable proteins are detected. The antibodies produced using the antigenic peptides of the present invention,
20 for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole, preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[166] The antibodies can be used to conduct immunohistochemistry and other analyses of a variety of tissue samples to determine expression of a particular GPCR in such tissues, for
25 diagnostic assays, and for other desired purposes. The specification will now discuss a variety of antibody types, methods, uses, etc.

[167] ANTIBODIES GENERALLY:

[168] In some embodiments, the present invention provides antibodies and other binding partners created using the antigenic peptides herein and directed to a particular GPCR from
30 which the antigenic peptides were derived. Compositions and uses for such antibodies are contemplated, including diagnostic, medicament, and therapeutic uses. Various diagnostic, medicament, and therapeutic uses for antibodies have been reviewed above and, for example,

in Goldenberg et al., *Semin. Cancer Biol.*, 1(3):217-225 (1990); Beck et al., *Semin. Cancer Biol.*, 1(3):181-188 (1990); Niman, *Immunol. Ser.*, 53:189-204 (1990); Endo, *Nippon Igaku Hoshasen Gakkai Zasshi (Japan)*, 50(8):901-909 (1990); and, U.S. Pat. No. 6,214,984.

[169] Recognized immunoglobulin genes include the kappa, lambda, alpha, gamma, delta, epsilon, and mu constant region genes, as well as myriad immunoglobulin variable region genes. Light chains are classified as either kappa or lambda. Heavy chains are classified as gamma, mu, alpha, delta, or epsilon, which in turn define the immunoglobulin classes, IgG, IgM, IgA, IgD, and IgE, respectively. An exemplary immunoglobulin (antibody) structural unit comprises a tetramer. Each tetramer is composed of two identical pairs of antigenic peptide chains, each pair having one "light" chain (about 25 kD) and one "heavy" chain (about 50-70 kD). The N-terminus of each chain defines a variable region of about 100 to 110 or more amino acids primarily responsible for antigen recognition. The terms variable light chain (V_L) and variable heavy chain (V_H) refer to these light and heavy chains respectively.

15 [170] **ANTI-IDIOTYPIC ANTIBODIES:**

[171] The present invention encompasses anti-idiotypic antibodies, including polyclonal and monoclonal anti-idiotypic antibodies, that are produced using the antibodies described herein as antigens. These anti-idiotypic antibodies are useful because they may mimic the structures of the antigenic peptides set forth herein.

20 [172] Techniques for producing antibodies, including antibody fragments, include the following.

a. Antibody Preparation

(i) Polyclonal Antibodies

25 [173] **ANTIBODY PREP - POLYCLONAL:**

[174] Polyclonal antibodies are generally raised in animals by multiple subcutaneous (sc) or intraperitoneal (ip) injections of the relevant antigen and an adjuvant. It may be useful to conjugate the relevant antigen to a protein that is immunogenic in the species to be immunized, *e.g.*, keyhole limpet hemocyanin, serum albumin, bovine thyroglobulin, or soybean trypsin inhibitor, using a bifunctional or derivatizing agent, for example, maleimidobenzoyl sulfosuccinimide ester (conjugation through cysteine residues), N-

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hydroxysuccinimide (through lysine residues), glutaraldehyde, succinic anhydride, SOCl_2 , or $\text{R}^1\text{N}=\text{C}=\text{NR}$, where R and R^1 are different alkyl groups.

[175] ANTIBODY PREP – ADJUVANTS (ALL ABS):

[176] Suitable adjuvants for the vaccination of animals for the production of polyclonal, monoclonal, and other antibodies include but are not limited to Adjuvant 65 (containing peanut oil, mannide monooleate, and aluminum monostearate); Freund's complete or incomplete adjuvant; mineral gels such as aluminum hydroxide, aluminum phosphate, and alum; surfactants such as hexadecylamine, octadecylamine, lysolecithin, dimethyldioctadecylammonium bromide, N,N-dioctadecyl-N',N'-bis(2-hydroxymethyl) propanediamine, methoxyhexadecylglycerol, and pluronic polyols; polyanions such as pyran, dextran sulfate, poly IC, polyacrylic acid, and carbopol; peptides such as muramyl dipeptide, dimethylglycine, tuftsin, stress proteins, core-containing proteins from a positive stranded RNA virus, *see* US Pat. No. 6,153,378; and, oil emulsions. The antigenic peptides could also be administered following incorporation into liposomes or other microcarriers.

[177] Information concerning adjuvants and various aspects of immunoassays are disclosed, *e.g.*, in the series by P. Tijssen, Practice and Theory of Enzyme Immunoassays, 3rd Edition (1987), Elsevier, New York. Other useful references covering methods for preparing polyclonal antisera include Microbiology, Hoeber Medical Division, Harper and Row (1969); Landsteiner, Specificity of Serological Reactions, Dover Publications, New York (1962); and, Williams, et al., Methods in Immunology and Immunochemistry, Vol. 1, Academic Press, New York (1967).

[178] Animals can be immunized against the antigen, immunogenic conjugates, or derivatives by combining 1 mg or 1 μg of the peptide or conjugate (for rabbits or mice, respectively) with 3 volumes of Freund's complete adjuvant and injecting the solution intradermally at multiple sites. One month later the animals are boosted with 1/5 to 1/10 the original amount of peptide or conjugate in Freund's complete adjuvant by subcutaneous injection at multiple sites. Seven to 14 days later the animals are bled and the serum is assayed for antibody titer. Animals are boosted until the titer plateaus. Preferably, the animal is boosted with the conjugate of the same antigen, but conjugated to a different protein or through a different cross-linking reagent. Conjugates also can be made in recombinant cell culture as protein fusions. In addition, aggregating agents such as alum can be suitably used to enhance the immune response.

(ii) Monoclonal Antibodies

[179] ANTIBODY PREP - MONOCLONAL:

[180] Monoclonal antibodies are obtained from a population of substantially homogeneous antibodies, *e.g.*, the individual antibodies comprising the population are identical except for possible naturally occurring mutations that may be present in minor amounts. For example, monoclonal antibodies can be made using the hybridoma method first described by Kohler and Milstein, *Nature*, 256:495 (1975), or can be made by recombinant DNA methods, or otherwise as desired.

[181] In the hybridoma method, a mouse, or other appropriate host animal, such as a hamster, is immunized as described herein to elicit lymphocytes that produce or are capable of producing antibodies that will bind specifically to the antigenic peptide used for immunization. Alternatively, lymphocytes may be immunized *in vitro*. Lymphocytes then are fused with myeloma cells using a suitable fusing agent, such as polyethylene glycol, to form a hybridoma cell, Goding, *Monoclonal Antibodies: Principles and Practice*, pp. 59-103, Academic Press (1986).

[182] The hybridoma cells thus prepared are seeded and grown in a suitable culture medium that preferably contains one or more substances that inhibit the growth or survival of the unfused, parental myeloma cells. For example, if the parental myeloma cells lack the enzyme hypoxanthine guanine phosphoribosyl transferase (HGPRT or HPRT), the culture medium for the hybridomas typically will include hypoxanthine, aminopterin, and thymidine (HAT medium), which substances prevent the growth of HGPRT-deficient cells.

[183] Preferred myeloma cells are those that fuse efficiently, support stable high-level production of antibody by the selected antibody-producing cells, and are sensitive to a medium such as HAT medium, for example murine myeloma lines, such as those derived from MOPC-21 and MPC-11 mouse tumors available from the Salk Institute Cell Distribution Center, San Diego, CA USA, and SP-2 cells available from the American Type Culture Collection, Rockville, MD USA. Human myeloma and mouse-human heteromyeloma cell lines have also been described for the production of human monoclonal antibodies, Kozbor, *J. Immunol.*, 133:3001 (1984); Brodeur et al., *Monoclonal Antibody Production Techniques and Applications*, pp. 51-63, Marcel Dekker, Inc., New York (1987).

[184] Culture medium in which hybridoma cells are growing is assayed for production of monoclonal antibodies directed against the antigenic peptide. The binding specificity of monoclonal antibodies produced by hybridoma cells can be determined by immunoprecipitation or by an *in vitro* binding assay, such as radioimmunoassay (RIA) or enzyme-linked immunosorbent assay (ELISA). The binding affinity of the monoclonal antibody can, for example, be determined by the Scatchard analysis of Munson and Pollard, Anal. Biochem., 107:220 (1980). The antibodies produced using the antigenic peptides of the present invention, for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole, preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[185] After hybridoma cells are identified that produce antibodies of the desired specificity, affinity, or activity, the clones may be subcloned by limiting dilution procedures and grown by standard methods (Goding, *supra*). Suitable culture media for this purpose include, for example, D-MEM or RPMI-1640 medium. In addition, the hybridoma cells may be grown *in vivo* as ascites tumors in an animal.

[186] The monoclonal antibodies secreted by the subclones are suitably separated from the culture medium, ascites fluid, or serum by conventional immunoglobulin purification procedures such as, for example, protein A-SEPHAROSETM, hydroxyapatite chromatography, gel electrophoresis, dialysis, or affinity chromatography.

[187] DNA encoding the monoclonal antibodies can be readily isolated and sequenced using conventional procedures (*e.g.*, by using oligonucleotide probes that are capable of binding specifically to genes encoding the heavy and light chains of murine antibodies). The hybridoma cells serve as a preferred source of such DNA. Once isolated, the DNA may be placed into expression vectors, which can then be transfected into host cells such as *E. coli* cells, simian COS cells, Chinese hamster ovary (CHO) cells, or myeloma cells that do not otherwise produce immunoglobulin protein, to obtain the synthesis of monoclonal antibodies in the recombinant host cells. Review articles on recombinant expression in bacteria of DNA encoding antibody include Skerra et al., Curr. Opin. in Immunol., 5:256-262 (1993), and Pluckthun, Immunol. Revs., 130:151-188 (1992).

[188] **MOABS - COMBINATORIAL:**

[189] In a further embodiment, antibodies or antibody fragments can be isolated from antibody phage libraries generated using the techniques described in McCafferty et al.,

Nature, 348:552-554 (1990), using the proper antigen such as CD11a, CD18, IgE, or HER-2 to select for a suitable antibody or antibody fragment. Clackson et al., Nature, 352:624-628 (1991) and Marks et al., J. Mol. Biol., 222:581-597 (1991) describe the isolation of murine and human antibodies, respectively, using phage libraries. Subsequent publications describe the production of high affinity (nM range) human antibodies by chain shuffling, Marks et al., Biotechnology, 10:779-783 (1992), as well as combinatorial infection and *in vivo* recombination as strategies for constructing very large phage libraries, Waterhouse et al., Nuc. Acids. Res., 21:2265-2266 (1993). Combinatorial antibodies are also discussed in Huse et al., Science 246:1275-1281 (1989), and Sastry et al., Proc. Natl. Acad. Sci. USA, 86:5728-5732 (1989), and Altling-Mees et al., Strategies in Molecular Biology 3:1-9 (1990). These references describe a system commercially available from Stratacyte, La Jolla, CA USA. Briefly, mRNA is isolated from a B cell population and utilized to create heavy and light chain immunoglobulin cDNA expression libraries in the λ IMMUNOZAP(H) and λ IMMUNOZAP(L) vectors. These vectors may be screened individually or co-expressed to form Fab fragments or antibodies, *see* Huse et al., *supra*; *see also* Sastry et al., *supra*. Positive plaques can subsequently be converted to a non-lytic plasmid, which allows for high-level expression of monoclonal antibody fragments from *E. coli*.

[190] HUMANIZED MOAB:

[191] Binding partners can also be constructed utilizing recombinant DNA techniques to incorporate the variable regions of a gene that encode a specifically binding antibody. The construction of these binding partners can be readily accomplished by one of ordinary skill in the art in view of the present application. *See* Larrick et al., Biotechnology, 7:934-938 (1989); Riechmann et al., Nature, 332:323-327 (1988); Roberts et al., Nature, 328:731-734 (1987); Verhoeyen et al., Science 239:1534-1536 (1988); Chaudhary et al., Nature, 339:394-397 (1989); *see also* U.S. Pat. No. 5,132,405 entitled "Biosynthetic Antibody Binding Sites".) For example, the DNA can be modified by substituting the coding sequence for human heavy- and light-chain constant domains in place of homologous murine sequences, U.S. Pat. No. 4,816,567; Morrison, et al., Proc. Nat. Acad. Sci., 81:6851 (1984), or by covalently joining to the immunoglobulin coding sequence all or part of the coding sequence for a non-immunoglobulin polypeptide. In another example, DNA segments encoding the desired antigen-binding domains specific for the protein or peptide of interest are amplified from appropriate hybridomas and inserted directly into the genome of a cell that produces human

antibodies. See Verhoeyen et al., *supra*; see also Reichmann et al., *supra*. Some of these techniques transfer the antigen-binding site of a specifically binding mouse or rat monoclonal antibody or the like to a human antibody. Such antibodies can be preferable for therapeutic use in humans because they are typically not as antigenic as rat or mouse antibodies.

- 5 [192] In an alternative embodiment, genes that encode the variable region from a hybridoma producing a monoclonal antibody of interest can be amplified using oligonucleotide primers for the variable region. These primers may be synthesized by one of ordinary skill in the art, or may be purchased from commercially available sources. For instance, primers for mouse and human variable regions including, among others, primers for
- 10 $V_{H\alpha}$, $V_{H\beta}$, $V_{H\gamma}$, $V_{H\delta}$, C_{H1} , V_L and C_L regions are available from Stratacyte (La Jolla, CA). These primers may be utilized to amplify heavy- or light-chain variable regions, which may then be inserted into vectors such as IMMUNOZAPTM(H) or IMMUNOZAPTM(L) (Stratacyte), respectively. These vectors may then be introduced into *E. coli* for expression. Utilizing these techniques, large amounts of a single-chain protein containing a fusion of the
- 15 V_H and V_L domains may be produced, see Bird et al., Science 242:423-426 (1988).

[193] ANTIBODY SUBSTITUTIONS - NON-IMMUNOGLOBULIN POLYPEPTIDES (ALL ABS):

- [194] Non-immunoglobulin polypeptides can be substituted in monoclonal and other antibodies described herein for the constant domains of an antibody, or they can be
- 20 substituted for the variable domains of one antigen-combining site of an antibody to create a chimeric bivalent antibody comprising one antigen-combining site having specificity for an antigen and another antigen-combining site having specificity for a different antigen.

[195] CHIMERICS:

- [196] Chimeric or hybrid antibodies can also be prepared *in vitro* using known methods in
- 25 synthetic protein chemistry, including those involving crosslinking agents, in view of the present application. For example, immunotoxins may be constructed using a disulfide-exchange reaction or by forming a thioether bond. Examples of suitable reagents for this purpose include iminothiolate and methyl-4-mercaptobutyrimidate.

[197] ANTIBODY LABELING (ALL ABS):

- 30 [198] For diagnostic applications or otherwise as desired, and for monoclonal and other antibodies described herein, the antibodies and other binding partners typically will be labeled with a detectable moiety. The detectable moiety can be any moiety that is capable of

producing, either directly or indirectly, a detectable signal. For example, the detectable moiety may be a radioisotope, such as ^3H , ^{14}C , ^{32}P , ^{35}S , or ^{125}I ; a fluorescent or chemiluminescent compound, such as fluorescein isothiocyanate, rhodamine, or luciferin; or an enzyme, such as alkaline phosphatase, beta-galactosidase, or horseradish peroxidase. Any method known in the art for conjugating the antibody or binding partner to the detectable moiety may be employed, including those methods described by Hunter et al., *Nature*, 144:945 (1962); David et al., *Biochemistry*, 13:1014 (1974); Pain et al., *J. Immunol. Meth.*, 40:219 (1981); and Nygren, *J. Histochem. Cytochem.*, 30:407 (1982).

10 (iii) Humanized And Human Antibodies

[199] **HUMANIZED AB GENERALLY:**

[200] Methods for humanizing non-human antibodies are well known in the art and have been discussed in part above. Generally, a humanized antibody has one or more amino acid residues introduced into it from a source which is non-human. These non-human amino acid residues are often referred to as "import" residues, which are typically taken from an "import" variable domain. Humanization can be performed essentially following the method of Winter and co-workers, Jones et al., *Nature*, 321:522-525 (1986); Riechmann et al., *Nature*, 332:323-327 (1988); Verhoeven et al., *Science*, 239:1534-1536 (1988), by substituting rodent CDRs or CDR sequences for the corresponding sequences of a human antibody. Accordingly, such humanized antibodies are chimeric antibodies, U.S. Pat. No. 4,816,567, wherein substantially less than an intact human variable domain has been substituted by the corresponding sequence from a non-human species. In practice, humanized antibodies are typically human antibodies in which some CDR residues and possibly some FR residues are substituted by residues from analogous sites in rodent antibodies.

25 [201] The choice of human variable domains, both light and heavy, to be used in making humanized antibodies is very important to reduce antigenicity. According to the so-called "best-fit" method, the sequence of the variable domain of a rodent antibody is screened against the entire library of known human variable-domain sequences. The human sequence that is closest to that of the rodent is then accepted as the human framework (FR) for the humanized antibody. Sims et al., *J. Immunol.*, 151:2296 (1993); Chothia and Lesk, *J. Mol. Biol.*, 196:901 (1987). Another method uses a particular framework derived from the consensus sequence of all human antibodies of a particular subgroup of light or heavy chains.

The same framework may be used for several different humanized antibodies. Carter et al., Proc. Natl. Acad. Sci. USA, 89:4285 (1992); Presta et al., J. Immunol., 151:2623 (1993).

[202] It is typically desirable that antibodies be humanized with retention of high affinity for the antigen and other favorable biological properties. To achieve this goal, according to one method, humanized antibodies are prepared by a process of analysis of the parental sequences and various conceptual humanized products using three-dimensional models of the parental and humanized sequences. Three-dimensional immunoglobulin models are commonly available and are familiar to those skilled in the art. Computer programs are available that illustrate and display probable three-dimensional conformational structures of selected candidate immunoglobulin sequences. Inspection of these displays permits analysis of the likely role of the residues in the functioning of the candidate immunoglobulin sequence, *e.g.*, the analysis of residues that influence the ability of the candidate immunoglobulin to bind antigen. In this way, FR residues can be selected and combined from the consensus and import sequences so that the desired antibody characteristic, such as increased affinity for the target antigen(s), is achieved. In general, CDR residues are directly and most substantially involved in influencing antigen binding.

[203] It is also possible to produce transgenic animals (*e.g.*, mice) that are capable, upon immunization, of producing a full repertoire of human antibodies in the absence of endogenous immunoglobulin production. For example, it has been described that the homozygous deletion of the antibody heavy-chain joining region (J_H) gene in chimeric and germ-line mutant mice results in complete inhibition of endogenous antibody production. Transfer of the human germ-line immunoglobulin gene array in such germ-line mutant mice will result in the production of human antibodies upon antigen challenge. *See, e.g.*, Jakobovits et al., Proc. Natl. Acad. Sci. USA. 90:2551-255 (1993); Jakobovits et al., Nature, 362:255-258 (1993); Bruggemann et al., Year Immuno., 7:33 (1993). Human antibodies can also be produced in phage-display libraries, Hoogenboom and Winter, J. Mol. Biol., 227:381 (1991); Marks et al., J. Mol. Biol., 222:581 (1991).

(iv) Antibody Fragments

[204] **ANTIBODY FRAGMENTS:**

[205] Various techniques have been developed for the production of antibody fragments. Such fragments can be derived via proteolytic digestion of intact antibodies, *see, e.g.*,

Morimoto et al., J. Biochem. Biophys. Meth. 24:107-117 (1992) and Brennan et al., Science, 229:81 (1985). Fragments can also be produced directly by recombinant host cells. For example, antibody fragments can be isolated from antibody phage libraries discussed above. Fab'-SH fragments can be directly recovered from *E. coli* and chemically coupled to form F(ab')₂ fragments, Carter et al., Biotechnology 10:163-167 (1992). F(ab')₂ fragments can be isolated directly from recombinant host cell culture. Other techniques for the production of antibody fragments will be apparent to the skilled practitioner.

(v) Bispecific Antibodies

10 [206] **BISPECIFIC ANTIBODIES GENERALLY:**

[207] Bispecific antibodies (BsAbs) are antibodies that have binding specificities for at least two different antigens. Bispecific antibodies can be derived from full-length antibodies or from antibody fragments, *e.g.*, F(ab')₂ bispecific antibodies.

[208] Methods for making bispecific antibodies are known in the art. Traditional
15 production of full-length bispecific antibodies is based on the coexpression of two immunoglobulin heavy chain-light chain pairs, where the two chains have different specificities, Millstein and Cuello, Nature, 305:537-539 (1983). Because of the random assortment of immunoglobulin heavy and light chains, these hybridomas (quadromas) produce a mixture of potentially 10 different antibody molecules, of which only one has the
20 correct bispecific structure. Purification of the correct molecule, which is usually accomplished by affinity chromatography steps, is rather cumbersome, and the product yields are low. Similar procedures are disclosed in WO 93/08829, and in Traunecker et al., E.M.B.O. J., 10:3655-3659 (1991).

[209] According to another approach, antibody variable domains containing the desired
25 binding specificities (antibody-antigen combining sites) are fused to immunoglobulin constant domain sequences. The fusion is preferably with an immunoglobulin heavy chain constant domain, comprising at least part of the hinge, C_H 2, and C_H 3 regions. It is preferred to have the first heavy-chain constant region (C_H 1) containing the site necessary for light chain binding, present in at least one of the fusions. DNAs encoding the immunoglobulin
30 heavy chain fusions and, if desired, the immunoglobulin light chain, are inserted into separate expression vectors, and are co-transfected into a suitable host organism. This provides for great flexibility in adjusting the mutual proportions of the three polypeptide fragments in

embodiments when unequal ratios of the three polypeptide chains used in the construction provide the improved yields. It is, however, possible to insert the coding sequences for two or all three polypeptide chains in one expression vector when the expression of at least two polypeptide chains in equal ratios results in high yields or when the ratios are of no particular
5 significance.

[210] ANTIBODIES - HYBRID IMMUNOGLOBULIN HEAVY CHAIN:

[211] In one embodiment of this approach, the bispecific antibodies are composed of a hybrid immunoglobulin heavy chain with a first binding specificity in one arm, and a hybrid immunoglobulin heavy chain-light chain pair (providing a second binding specificity) in the
10 other arm. This asymmetric structure may facilitate the separation of the desired bispecific compound from unwanted immunoglobulin chain combinations, as the presence of an immunoglobulin light chain in only one half of the bispecific molecule provides for a facile method of separation. This approach is discussed in WO 94/04690. For further details of generating bispecific antibodies see, for example, Suresh et al., Meth. Enzymol., 121:210
15 (1986).

[212] ANTIBODIES - CROSS-LINKED OR "HETEROCONJUGATE":

[213] Bispecific antibodies include cross-linked or "heteroconjugate" antibodies. For example, one of the antibodies in the heteroconjugate can be coupled to avidin, the other to biotin. Such antibodies have, for example, been proposed to target immune system cells to
20 unwanted cells, U.S. Pat. No. 4,676,980), and for treatment of HIV infection, WO 91/00360, WO 92/200373, and EP 03089). Heteroconjugate antibodies may be made using any convenient cross-linking methods. Suitable cross-linking agents are well known in the art, and are disclosed in U.S. Pat. No. 4,676,980, along with a number of cross-linking techniques.

25 [214] ANTIBODIES - DIABODIES:

[215] The "diabody" technology described by Hollinger et al., Proc. Natl. Acad. Sci. USA, 90:6444-6448 (1993) has provided an alternative mechanism for making BsAb fragments. The fragments comprise a heavy-chain variable domain (V_H) connected to a light-chain variable domain (V_L) by a linker that is too short to allow pairing between the two domains
30 on the same chain. Accordingly, the V_H and V_L domains of one fragment are forced to pair with the complementary V_L and V_H domains of another fragment, thereby forming two antigen-binding sites.

[216] Another strategy for making BsAb fragments by the use of single-chain Fv (sFv) dimers has also been reported. See Gruber et al., J. Immunol., 152:5368 (1994). These researchers designed an antibody comprising the V_H and V_L domains of a first antibody joined by a 25-amino-acid-residue linker to the V_H and V_L domains of a second antibody.

- 5 The refolded molecule bound to fluorescein and the T-cell receptor and redirected the lysis of human tumor cells that had fluorescein covalently linked to their surface.

[217] **ANTIBODIES - OTHER:**

- [218] Techniques for generating bispecific antibodies from antibody fragments have also been described in the literature. For example, bispecific antibodies can be prepared using chemical linkage. Brennan et al., Science, 229:81 (1985) describe a procedure wherein intact antibodies are proteolytically cleaved to generate F(ab')₂ fragments. These fragments are reduced in the presence of the dithiol complexing agent sodium arsenite to stabilize vicinal dithiols and prevent intermolecular disulfide formation. The Fab' fragments generated are then converted to thionitrobenzoate (TNB) derivatives. One of the Fab'-TNB derivatives is then reconverted to the Fab'-thiol by reduction with mercaptoethylamine and is mixed with an equimolar amount of the other Fab'-TNB derivative to form the BsAb. The BsAbs produced can be used as agents for the selective immobilization of enzymes.
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- 15

- [219] Fab'-SH fragments can be directly recovered from *E. coli*, which can be chemically coupled to form bispecific antibodies. Shalaby et al., J. Exp. Med., 175:217-225 (1992) describe the production of a fully humanized BsAb F(ab')₂ molecule. Each Fab' fragment was separately secreted from *E. coli* and subjected to directed chemical coupling *in vitro* to form the BsAb. The BsAb thus formed was able to bind to cells overexpressing the HER2 receptor and normal human T cells, as well as trigger the lytic activity of human cytotoxic lymphocytes against human breast tumor targets. See also Rodriguez et al., Int. J. Cancers (Suppl.) 7:45-50 (1992).
- 20
- 25

- [220] Various techniques for making and isolating BsAb fragments directly from recombinant cell culture have also been described. For example, bispecific F(ab')₂ heterodimers have been produced using leucine zippers. Kostelny et al., J. Immunol., 148(5):1547-1553 (1992). The leucine zipper peptides from the Fos and Jun proteins are linked to the Fab' portions of two different antibodies by gene fusion. The antibody homodimers are reduced at the hinge region to form monomers and then re-oxidized to form the antibody heterodimers.
- 30

b. Antibody Purification

[221] ANTIBODY PURIFICATION GENERALLY:

[222] When using recombinant techniques, the antibody can be produced intracellularly, in the periplasmic space, or directly secreted into the medium. If the antibody is produced intracellularly, as a first step, the particulate debris, either host cells or lysed fragments, is removed, for example, by centrifugation or ultrafiltration. Carter et al., Bio/Technology 10:163-167 (1992), describe a procedure for isolating antibodies which are secreted to the periplasmic space of *E. coli*. Briefly, cell paste is thawed in the presence of sodium acetate (pH 3.5), EDTA, and phenylmethylsulfonylfluoride (PMSF) over about 30 min. Cell debris can be removed by centrifugation. Where the antibody is secreted into the medium, supernatants from such expression systems are generally first concentrated using a commercially available protein concentration filter, for example, an Amicon or Millipore Pellicon ultrafiltration unit. A protease inhibitor such as PMSF may be included in any of the foregoing steps to inhibit proteolysis and antibiotics may be included to prevent the growth of adventitious contaminants.

[223] BEFORE LPHIC:

[224] The antibody composition prepared from the cells is preferably subjected to at least one purification step prior to LPHIC. Examples of suitable purification steps include hydroxyapatite chromatography, gel electrophoresis, dialysis, and affinity chromatography. The suitability of protein A as an affinity ligand depends on the species and isotype of any immunoglobulin Fc domain that is present in the antibody. Protein A can be used to purify antibodies that are based on human $\gamma 1$, $\gamma 2$, or $\gamma 4$ heavy chains, Lindmark et al., J. Immunol. Meth. 62:1-13 (1983). Protein G has been recommended for mouse isotypes and for human $\gamma 3$, Guss et al., E.M.B.O. J., 5:1567-1575 (1986). The matrix to which the affinity ligand is attached is often agarose, but other matrices are available. Mechanically stable matrices such as controlled pore glass or poly(styrenedivinyl)benzene allow for faster flow rates and shorter processing times than can be achieved with agarose. Where the antibody comprises a $C_H 3$ domain, the Bakerbond ABXTM resin (J. T. Baker, Phillipsburg, N.J.) is useful for purification. Other techniques for protein purification such as fractionation on an ion-exchange column, ethanol precipitation, Reverse Phase HPLC, chromatography on silica, chromatography on heparin SEPHAROSETM, chromatography on an anion or cation

exchange resin (such as a polyaspartic acid column), chromatofocusing, SDS-PAGE, and ammonium sulfate precipitation are also available depending on the antibody to be recovered.

[225] LPHIC:

[226] Following any preliminary purification step(s), the mixture comprising the antibody of interest and contaminant(s) can be subjected to LPHIC. See US Patent No. 6,214,984. Often, the antibody composition to be purified will be present in a buffer from the previous purification step. However, it may be necessary to add a buffer to the antibody composition prior to the LPHIC step. Many buffers are available and can be selected by routine experimentation. The pH of the mixture comprising the antibody to be purified and at least one contaminant in a loading buffer is adjusted to a pH of about 2.5-4.5 using either an acid or base, depending on the starting pH. The loading buffer can have a low salt concentration (e.g., less than about 0.25 M salt).

[227] The mixture is loaded on the HIC column. HIC columns normally comprise a base matrix (e.g., cross-linked agarose or synthetic copolymer material) to which hydrophobic ligands (e.g., alkyl or aryl groups) are coupled. One example of an HIC column comprises an agarose resin substituted with phenyl groups (e.g., a Phenyl SEPHAROSE™ column). Many HIC columns are available commercially. Examples include, but are not limited to, Phenyl SEPHAROSE 6 FAST FLOW™ column with low or high substitution (Pharmacia LKB Biotechnology, AB, Sweden); Phenyl SEPHAROSE™ High Performance column (Pharmacia LKB Biotechnology, AB, Sweden); Octyl SEPHAROSE™ High Performance column (Pharmacia LKB Biotechnology, AB, Sweden); FRACTOGEL™ EMD Propyl or FRACTOGEL™ EMD Phenyl columns (E. Merck, Germany); MACRO-PREP™ Methyl or MACRO-PREP™ t-Butyl Supports (Bio-Rad, California); WP HI-Propyl (C₃)™ column (J. T. Baker, New Jersey); and TOYOPEARL™ ether, phenyl, or butyl columns (TosoHaas, PA).

[228] The antibody is typically eluted from the column using an elution buffer that is the same as the loading buffer. The elution buffer can be selected using routine experimentation in view of the present application. The pH of the elution buffer may be between about 2.5-4.5 and have a low salt concentration (e.g., less than about 0.25 M salt). It may not be necessary to use a salt gradient to elute the antibody of interest; the desired product may be recovered in the flow-through fraction that does not bind significantly to the column.

[229] The LPHIC step provides a way to remove a correctly folded and disulfide bonded antibody from unwanted contaminants (*e.g.*, incorrectly associated light and heavy fragments). The method can provide an approach to substantially remove an impurity characterized as a correctly folded antibody fragment whose light and heavy chains fail to
5 associate through disulfide bonding. Antibody compositions prepared using LPHIC can be up to about 95% pure or more. Purities of more than about 98% have been reported. US Patent No. 6,214,984.

[230] **POST LPHIC:**

[231] Antibody compositions prepared by LPHIC can be further purified as desired using
10 techniques which are well known in the art. Diagnostic or therapeutic formulations of the purified protein can be made by providing the antibody composition in a physiologically acceptable carrier, examples of which are provided below. To remove contaminants (*e.g.*, unfolded antibody and incorrectly associated light and heavy fragments) from the HIC column so that it can be re-used, a composition including urea (*e.g.*, 6.0 M urea, 1% MES
15 buffer pH 6.0, 4 mM ammonium sulfate) can be flowed through the column.

c. Some Uses For Antibodies Described Herein

(i) Generally

[232] **GENERALLY:**

20 [233] The present invention comprises any suitable use for the antibodies and other binding partners discussed herein. The following provides some of the desired uses, including diagnostic and therapeutic uses. Various diagnostic and therapeutic uses for antibodies have been reviewed in Goldenberg et al., *Semin. Cancer Biol.*, 1(3):217-225 (1990); Beck et al., *Semin. Cancer Biol.*, 1(3):181-188 (1990); Niman, *Immunol. Ser.* 53:189-
25 204 (1990); and, Endo, *Nippon Igaku Hoshasen Gakkai Zasshi (Japan)* 50(8):901-909 (1990), for example.

[234] **ASSAYS:**

[235] The antibodies can be used in immunoassays, such as enzyme immunoassays. BsAbs can be useful for this type of assay; one arm of the BsAb can be designed to bind to a
30 specific epitope on the enzyme so that binding does not cause enzyme inhibition, the other arm of the antibody can be designed to bind to an immobilizing matrix ensuring a high enzyme density at the desired site. Examples of such diagnostic BsAbs include those having

specificity for IgG as well as ferritin, and those having binding specificities for horseradish peroxidase (HRP) as well as a hormone, for example. Monoclonal and polyclonal antibodies are also exemplary antibodies for immunoassays.

[236] The antibodies can be designed for use in two-site immunoassays. For example, two antibodies are produced binding to two separate epitopes on the analyte protein; one antibody binds the complex to an insoluble matrix, the other binds an indicator enzyme.

[237] **DIAGNOSTIC USES:**

[238] Antibodies can also be used for immunodiagnosis, *in vitro* or *in vivo* or otherwise, of various diseases or conditions based on the presence or absence of a particular GPCR. Such diseases and conditions include, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and

cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

- 5 [239] To facilitate this diagnostic use, an antibody that binds a particular GPCR, when such is differentially expressed in tumors or other target diseases, can be conjugated with a detectable marker (*e.g.*, a chelator that binds a radionuclide). Examples of tumor-associated antigens being used in a similar fashion include an antibody having specificity for the tumor-associated antigen CEA used for imaging colorectal and thyroid carcinomas and the anti-
10 p185^{HER2} antibody used for detecting cancers characterized by amplification of the HER2 protooncogene. Other uses for the antibodies of the present invention will be apparent to the skilled practitioner in view of the present application.

(ii) Assays

15 [240] ASSAYS:

- [241] For certain applications such as some diagnostic and other assay applications, the antibody typically can be labeled directly or indirectly with a detectable moiety. The detectable moiety can be any moiety that is capable of producing, either directly or indirectly, a detectable signal. For example, the detectable moiety may be a radioisotope, such as ³H,
20 ¹⁴C, ³²P, ³⁵S, or ¹²⁵I; a fluorescent or chemiluminescent compound, such as fluorescein isothiocyanate, rhodamine, or luciferin; or an enzyme, such as alkaline phosphatase, beta-galactosidase, or HRP.

- [242] Any method known in the art for separately conjugating the antibody to the detectable moiety may be employed, including those methods described by Hunter et al.,
25 *Nature*, 144:945 (1962); David et al., *Biochemistry*, 13:1014 (1974); Pain et al., *J. Immunol. Meth.* 40:219 (1981); and, Nygren, *J. Histochem. and Cytochem.* 30:407 (1982).

- [243] The antibodies of the present invention may be employed in any desired assay method, such as competitive binding assays, direct, and indirect sandwich assays, and immunoprecipitation assays. Zola, *Monoclonal Antibodies: A Manual of Techniques*, pp.
30 147-158 (CRC Press, Inc. (1987).

[244] COMPETITIVE BINDING ASSAYS:

[245] Competitive binding assays rely on the ability of a labeled standard to compete with the test sample analyte for binding with a limited amount of antibody. The amount of analyte in the test sample is inversely proportional to the amount of standard that becomes bound to the antibody. To facilitate determining the amount of standard that becomes bound, the antibody generally is insolubilized before or after the competition, so that the standard, and analyte that are bound to the antibody may conveniently be separated from the standard, and analyte which remain unbound.

[246] BsAbs are particularly useful for sandwich assays which involve the use of two molecules, each capable of binding to a different immunogenic portion, or epitope, of the sample to be detected. In a sandwich assay, the test sample analyte is bound by a first arm of the antibody which is immobilized on a solid support, and thereafter a second arm of the antibody binds to the analyte, thus forming an insoluble three part complex. *See, e.g.,* U.S. Pat. No. 4,376,110. The second arm of the antibody may itself be labeled with a detectable moiety (direct sandwich assays) or may be measured using an anti-immunoglobulin antibody that is labeled with a detectable moiety (indirect sandwich assay). For example, one type of sandwich assay is an ELISA assay, in which case the detectable moiety is an enzyme. Assays are discussed further elsewhere herein in relation to binding partners such as antibodies, and antigenic peptides for particular GPCRs, including assays searching for or using such antigenic peptides, and would be apparent to those skilled in the art in view of the present application.

(iii) Affinity Purification

[247] AFFINITY PURIFICATION:

[248] The antibodies also are useful for the affinity purification of an antigen of interest such as a particular GPCR from sources such as recombinant cell culture or natural sources.

(iv) Therapeutics

[249] THERAPEUTIC USES:

[250] Therapeutic compositions, and uses, etc., for the antibodies described herein will now be discussed. As with other parts of this application, this section does not contain the entire discussion of therapeutic uses or compositions, etc., for antibodies; other sections discuss both antibodies, and therapeutics, and the discussion in this section applies to certain

other aspects discussed herein. Turning to antibodies and therapeutics, the antibodies can be used, for example, for redirected cytotoxicity (*e.g.*, to kill tumor cells), as a vaccine adjuvant, for delivering thrombolytic agents to clots, for delivering immunotoxins to tumor cells, for converting enzyme activated prodrugs at a target site (*e.g.*, a tumor), for treating infectious diseases or targeting immune complexes to cell surface receptors.

[251] THERAPEUTIC FORMULATIONS:

[252] Therapeutic formulations of the antibody can be prepared for storage by mixing the antibody having the desired degree of purity with optional physiologically acceptable carriers, excipients, or stabilizers (Remington's Pharmaceutical Sciences, 16th edition, Osol, A., Ed. (1980), for example in the form of lyophilized cake or aqueous solutions. Acceptable carriers, excipients, or stabilizers are nontoxic to recipients at the dosages, and concentrations employed, and include buffers such as phosphate, citrate, and other organic acids; antioxidants including ascorbic acid; low molecular weight (less than about 10 residues) polypeptides; proteins, such as serum albumin, gelatin, or immunoglobulins; hydrophilic polymers such as polyvinylpyrrolidone; amino acids such as glycine, glutamine, asparagine, arginine, or lysine; monosaccharides, disaccharides, and other carbohydrates including glucose, mannose, or dextrans; chelating agents such as EDTA; sugar alcohols such as mannitol or sorbitol; salt-forming counterions such as sodium; or nonionic surfactants such as Tween, Pluronic, or polyethylene glycol (PEG).

[253] The antibodies also may be entrapped in microcapsules prepared, for example, by coacervation techniques or by interfacial polymerization (for example, hydroxymethylcellulose or gelatin-microcapsules, and poly-[methylmethacrylate] microcapsules, respectively), in colloidal drug delivery systems (for example, liposomes, albumin microspheres, microemulsions, nano-particles, and nanocapsules), or in macroemulsions. Such techniques are disclosed in Remington's Pharmaceutical Sciences, *supra*.

[254] THERAPEUTIC FORMULATIONS -STERILE:

[255] An antibody to be used for *in vivo* human administration should be sterile. This can be accomplished by filtration through sterile filtration membranes, for example prior to or following lyophilization and reconstitution. The antibody ordinarily will be stored in lyophilized form or in solution. Therapeutic antibody compositions generally are placed into

a container having a sterile access port, for example, an intravenous solution bag or vial having a stopper pierceable by a hypodermic injection needle.

[256] THERAPEUTIC ADMINISTRATIONS:

[257] The route of antibody administration is in accord with known methods, *e.g.*,
5 injection or infusion by intravenous, intraperitoneal, intracerebral, intramuscular, intraocular, intraarterial, or intralesional routes, or by sustained release systems as noted below.

[258] The antibody can be administered, for example, continuously by infusion or by bolus injection. Suitable examples of sustained-release preparations include semipermeable matrices of solid hydrophobic polymers containing the protein, which matrices are in the
10 form of shaped articles, *e.g.*, films, or microcapsules. Examples of sustained-release matrices include polyesters, hydrogels (*e.g.*, poly(2-hydroxyethyl-methacrylate) as described by Langer et al., J. Biomed. Mater. Res., 15:167-277 (1981), and Langer, Chem. Tech., 12:98-105 (1982), or poly(vinylalcohol)), polylactides, U.S. Pat. No. 3,773,919; EP 58,481, copolymers of L-glutamic acid and gamma ethyl-L-glutamate, Sidman et al., Biopolymers,
15 22:547-556 (1983), non-degradable ethylene-vinyl acetate, Langer et al., *supra*, degradable lactic acid-glycolic acid copolymers such as the LUPRON DEPOT™ (injectable microspheres composed of lactic acid-glycolic acid copolymer and leuprolide acetate), and poly-D-(-)-3-hydroxybutyric acid, EP 133,988.

**[259] THERAPEUTIC ADMINISTRATIONS - SUSTAINED RELEASE-
20 POLYMERS:**

[260] While polymers such as ethylene-vinyl acetate and lactic acid-glycolic acid sustain release of molecules for over 100 days, certain hydrogels release proteins for shorter time periods. When encapsulated antibodies remain in the body for a long time, they may denature or aggregate as a result of exposure to moisture at 37°C, resulting in a loss of
25 biological activity and possible changes in immunogenicity. Rational strategies can be devised for antibody stabilization depending on the mechanism involved. For example, if the aggregation mechanism is discovered to be intermolecular S-S bond formation through thio-disulfide interchange, stabilization may be achieved by modifying sulfhydryl residues, lyophilizing from acidic solutions, controlling moisture content, using appropriate additives,
30 and developing specific polymer matrix compositions.

[261] THERAPEUTIC ADMINISTRATIONS - SUSTAINED RELEASE-LIPOSOMES:

[262] Sustained-release antibody compositions also include liposomally entrapped antibody. Liposomes containing the antibody can be prepared by methods such as those in DE 3,218,121; Epstein et al., Proc. Natl. Acad. Sci. USA, 82:3688-3692 (1985); Hwang et al., Proc. Natl. Acad. Sci. USA, 77:4030-4034 (1980); EP 52,322; EP 36,676; EP 88,046; EP 5 143,949; EP 142,641; Japanese patent application 83-118008; U.S. Pat. Nos. 4,485,045 and 4,544,545; and EP 102,324. Ordinarily the liposomes are of the small (about 200-800 Angstroms) unilamellar type in which the lipid content is greater than about 30 mol. % cholesterol, the selected proportion being adjusted for the optimal antibody therapy.

[263] **THERAPEUTICALLY EFFECTIVE AMOUNT:**

10 [264] An effective amount of antibody to be employed therapeutically will depend, for example, upon the therapeutic objectives, the route of administration, and the condition of the patient. Accordingly, it will be necessary for the therapist to titer the dosage and modify the route of administration as required to obtain the optimal therapeutic effect. A typical daily dosage might range from about 1 µg/kg to up to 10 mg/kg or more, depending on the factors
15 mentioned above. Typically, the clinician will administer antibody until a dosage is reached that achieves the desired effect. The progress of this therapy is easily monitored by conventional assays.

20 5. DRUG DESIGN BASED ON THE ANTIGENS HEREIN OR ANTIBODIES THERETO

[265] **DISEASE/CONDITIONS LIST:**

[266] The peptides and antibodies of the present invention can serve as valuable tools for designing drugs for treating various pathophysiological conditions such as immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-
25 related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (e.g., osteoarthritis, osteoporosis), carcinoma (e.g., basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung
30 small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne

muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (e.g., by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (e.g., anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (e.g., chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved or that would be readily apparent to those skilled in the art in view of the present application.

EXAMPLES

[267] The Examples below provide information as follows: Example 1 relates to the identification and selection of the antigens set forth in Figure 2. Examples 2 to 4 relate to antibody production and purification based on such antigens. Examples 5 to 10 relate to H&E staining. And, Example 11 relates to Western blot analyses.

EXAMPLE 1: SELECTION OF ANTIGENS

[268] Antigenic peptides were derived from the amino acid sequence of a particular GPCR based on analyses of likely antigen-containing regions and specificity of those regions for the protein/gene of interest. The specificity of the antigen peptides (approximately 20 amino acids in length) for antibody generation was determined using the outlined techniques, including BLAST of several public databases. These public databases included but were not limited to GenBank, Swiss Prot Human, Swiss Prot NonHuman, GenPeptH, GenPept M, and

LifeSpan's proprietary databases. With respect to specificity, parameters that precluded the use of a particular peptide included the presence of 6 or more contiguous amino acids with sequence identity to protein(s) other than the protein of interest, the presence of sites of posttranslational modification, including phosphorylation and glycosylation, and highly hydrophobic sequences, which could indicate potential *in situ* localization within the plasma membrane. The peptides were analyzed for antigenicity using the published algorithm of Hopp, T. P., and Woods, K. R, Proc. Natl. Acad. Sci. U.S.A. 78, 3824-3828, (1981). Additional considerations in antigenic peptide design included 1) selection against sequences with multiple prolines in a row, 2) selection against sequences with multiple serines in a row, 3) selection against sequences with multiple lysines in a row, 4) selection against sequences with multiple arginines in a row 5) selection against sequences with multiple aspartic acids in a row, 6) selection against sequences with multiple glutamic acids in a row, 7) selection against peptides containing methionine or tryptophan, which can become oxidized as a result of the cyclization reaction, and 8) avoidance of stretches of 5 or more amino acids having no uncharged amino acids (which also resulted in a desirable charge to peptide length ratio of at least 1 charge:5 residues). The selected antigenic peptides are set forth in the Sequence Listing and in Figure 2.

EXAMPLE 2: ANTIBODY PRODUCTION SCHEDULE

- [269] Day 0 - Pre-immune serum collection (approximately 5.0 ml). Immunize using 200 µg antigen peptide per rabbit in Complete Freund's Adjuvant.
- [270] Day 14 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [271] Day 28 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [272] Day 42 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [273] Day 49 - First production bleed; obtain 24.0 - 26.0 ml.
- [274] Day 56 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [275] Day 63 - Second production bleed and ELISA analysis.

[276] Day 70 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.

[277] Day 77 - Third production bleed and affinity purification.

5 EXAMPLE 3: IMMUNOSORBENT PURIFICATION OF ANTISERUM:
 COUPLING OF PEPTIDE TO CNBR-ACTIVATED SEPHAROSE 4B

[278] Weigh out 0.8 g of CNBr-activated Sepharose 4B (2.5 ml of final gel volume). Wash and re-swell on sintered glass filter with 1 mM HCl, followed by coupling buffer (0.1 M NaHCO₃, 0.25 M NaCl, pH 8.5). Dissolve 10 mg of protein or peptide in coupling buffer.

10 Mix protein solution with gel suspension and incubate 2 hours at room temperature or overnight at 4°C. Block remaining active groups with 0.2 M glycine buffer, pH 8.1. Wash away excess adsorbed protein with coupling buffer, followed by 0.1 M acetate buffer containing 0.5 M NaCl, pH 4.3. Equilibrate the column with phosphate-buffered saline (PBS), pH 7.7.

15 EXAMPLE 4: IMMUNOSORBENT PURIFICATION OF ANTISERUM:
 AFFINITY PURIFICATION OF ANTISERUM

[279] Dilute 10 ml of clear antiserum 1:1 with PBS, pH 7.7, apply to affinity column at a flow rate of 0.3 ml/minute, and monitor absorbance of eluate at 280 nm. Collect fractions of

20 unbound material and rinse column with PBS, pH 7.7. Elute bound antibody with 0.2 M glycine, pH 1.85, and collect eluate until absorbance at 280 nm returns to baseline. Neutralize all collected fractions with 1 M Tris-HCl, pH 8.5 immediately after collection. Determine OD at 280 nm, and determine the total OD recovered. Conduct ELISA analysis with the corresponding antigen to confirm the presence and identity of recovered antibody

25 and the removal of all antibody from the original serum. Concentrate antibody to approximately 2.0 mg/ml and dialyze against PBS with 0.01% NaN₃.

 EXAMPLE 5: PREPARATION OF ANTIBODY DILUTIONS

[280] The purpose of this protocol is to dilute antibodies in solution. Materials include

30 Tris-HCL Buffer with carrier protein and 0.015 M NaN₃ (Dako Antibody Diluent #S0809 (DAKO, Carpinteria, CA); vials containing the antibodies described above or commercial antibodies against the particular GPCR; pipetmen and disposable tips; container of chopped ice; 12 ml Dako reagent tubes; and, reagent tube rack.

[281] The procedure is a) calculate proportions of antibody and diluent according to desired concentrations and volume requirements; b) label reagent tubes and place in rack; c) pipette needed volume of diluent into tube(s); d) place vials of antibodies into ice; e) invert and/or flick antibody vial(s) 3 or 4 times to insure suspension; f) pipette required volume of antibody(s) into corresponding diluent volumes; and, g) mix gently.

EXAMPLE 6: PREPARATION OF AUTOSTAINER SOLUTIONS

[282] The purpose of this protocol is the preparation of concentrated solutions for use in a DAKO autostainer. Materials include DAKO[®] TBST (Tris Buffered Saline Containing Tween-S3306), 10X Concentrate, DAKO[®] Target Retrieval Solution, 10x Concentrate (S1699), deionized H₂O, 20L container, with lid, marked at the 10L level, DAKO[®] TBS (Tris Buffered Saline-S1968), and DAKO Tween[®] (S1966).

[283] The procedure to make TBST 10x Concentrate is a) pour 2 500 ml bottles DAKO[®] TBST into a 20 L container, b) add deionized H₂O until solution level is at 10 L mark, c) replace lid and shake 10 to 20 times, d) pour diluted DAKO[®] TBST into autostainer carboy(s) as designated. The procedure to make Target Retrieval Solution is a) measure 135 ml of deionized H₂O and pour into slide bath, b) measure 15 ml of DAKO[®] Target Retrieval solution, c) add to H₂O, and d) agitate. This solution is then used in the steam method of target retrieval, Example 9, below. The procedure to make TBS is a) fill 20L container to 10L mark with deionized H₂O, b) add 2 envelopes of DAKO[®] TBS, c) add 5 ml of DAKO TWEEN[®], and d) replace lid and agitate 10 to 20 times.

EXAMPLE 7: PREPARATION OF SOLUTIONS FOR ANTIBODY DETECTION

[284] Solutions for antibody detection are prepared using Vector[®] Biotinylated antibody (BA series), Vectastain[®] ABC-AP Kit (AK-5000), 10 mM sodium phosphate, pH 7.5, 0.9% saline (PBS), Vector[®] Red Alkaline Phosphatase Substrate Kit I (SK-5100), and 100 mM Tris-HCl, pH 8.2 Buffer. To prepare biotinylated antibody, add 10 ml of PBS to reagent tube, add 1 drop biotinylated antibody to the PBS, then mix gently. To prepare ABC, to 10 ml of PBS, add 2 drops each of Reagent A and Reagent B, mix immediately, then allow to stand 30 minutes before use. To prepare AP Red, which should be prepared immediately

before use, to 5 ml of Tris-HCl buffer, add 2 drops of Reagent 1 and mix well, add 2 drops of Reagent 2 and mix well, then add 2 drops of Reagent 3 and mix well.

EXAMPLE 8: DEPARAFFINIZATION AND REHYDRATION OF SAMPLES

[285] The purpose of this protocol is to remove paraffin from and rehydrate preserved tissues in preparation for IHC procedures. Materials and equipment include fume hood, vertical slide rack(s), three xylene (VWR #72060-088) baths, three 100% alcohol blend (VWR #72060-050) baths, two 95% alcohol blend (VWR #72060-052) baths, one 70% alcohol blend (VWR #72060-056) bath, and Tris-Buffered Saline (DAKO® S1968) + Tween® (DAKO S1966).

[286] Insert the slides into the vertical rack(s). Move slides through baths inside fume hood as follows:

15	Xylene 5 Minutes
	Xylene 5 Minutes
	Xylene 5 Minutes
	100% Alcohol 2 Minutes
	100% Alcohol 2 Minutes
	100% Alcohol 1 Minute
20	95% Alcohol 2 Minutes
	95% Alcohol 2 Minutes
	70% Alcohol 1 Minute

[287] Finally, place slides into a container with TBST.

EXAMPLE 9: STEAM METHOD OF TARGET RETRIEVAL

[288] The purpose of this protocol is to optimize antibody binding within paraffin embedded tissues. Materials and equipment included a steamer, deionized H₂O, target retrieval solution, 10X concentrate (DAKO #S1699), 250 ml graduated cylinder, 15 ml graduated cylinder, staining dish(es), and deparaffinized and rehydrated tissue on microscope slides in immersed TBST. The procedure is to a) fill the steamer with deionized H₂O to appropriate depth as indicated, b) turn the steamer on, c) in a graduated cylinder, measure 135ml of deionized H₂O and pour into staining dish(es), d) pipette 15ml of target retrieval solution and release into deionized H₂O, e) place the staining dish(es) into the basket of the steamer and heat for at least 10 minutes to preheat, f) add rack(s) containing tissue slides to heated target retrieval solution, g) cover and steam for 20 minutes, h) remove container from

steamer and let stand at room temperature for 20 minutes, i) transfer rack(s) with slides to container(s) of TBST, and j) slides are now ready for staining procedures.

EXAMPLE 10: ANTIBODY DETECTION

- 5 [289] The deparaffinized, rehydrated, and steamed (if needed) slides are loaded onto racks within a DAKO autostainer and then the autostainer is run according to the manufacturer's instructions. The slides are removed and the autostainer is turned off.

EXAMPLE 11: WESTERN BLOTTING

- 10 [290] The purpose of this protocol is to visualize the immunoreactivity of the antibodies described above against the particular GPCR on a western blot. Materials and equipment included western blot membrane, TBS Tween (TBST: 100 mM Tris-HCl pH 7.5, 150 mM NaCl, 0.1% TweenTM 20), 5% non-fat dried milk in TBST (blotto), antibody of interest (primary), peroxidase-conjugated AffiniPure goat anti-rabbit IgG (H+L) (secondary) –
15 Jackson ImmunoResearch, ECL solution (Amersham Biosciences, Uppsala Sweden), film, developer D-19, fixer, rocking platform.

- [291] During the blotting procedure, the blot is kept wet at all times and on a substantially level surface. The Western blot is placed right-side up in 10 ml of blotto. The membrane is flipped over and the dish rocked so that the solution covered it. The membrane is then
20 flipped back to the right side and solution is again rocked over it. The blot is then placed on a shaker for at least 1 hour. Ten ml of primary antibody are prepared by diluting 1:500 in blotto.

- [292] The blotto is removed from the Western blot and replaced with the primary antibody. The blot is flipped again and placed on the shaker for 1 hour. Secondary antibody
25 and peroxidase-conjugated AffiniPure goat anti-rabbit IgG (H+L) are prepared 1:20,000 in 10 ml of blotto. The primary antibody is removed and the Western blot is washed 3 times with 10 ml of blotto. The blotto is removed and replaced with the secondary antibody solution. The blot is flipped and placed on the shaker for 1 hour. The secondary antibody is removed and the blot washed 2 times with 10 ml of blotto. The blotto is removed and the blot is
30 washed 2 times with 10 ml TBST. ECL is prepared by combining equal amounts of Solution 1 and 2.

[293] The blotto is removed and 1 ml of ECL is placed on the blot. The blot is flipped and let sit for 1 minute. The blot is placed on plastic wrap and immediately covered with plastic wrap. The ECL is pressed out. The blot is placed on the film, then the film is developed.

5

[294] From the foregoing, it will be appreciated that, although specific embodiments of the invention have been described herein for purposes of illustration, various modifications may be made without deviating from the spirit and scope of the invention. Accordingly, the invention includes all permutations and combinations of the subject matter set forth herein

10 and is not limited except as by the appended claims.

WHAT IS CLAIMED IS:

1. An isolated antigenic peptide according to any one of SEQ ID NOS. 692-2292.
- 5 2. An isolated antigenic peptide comprising an amino acid sequence that is at least about 90% identical to a sequence set forth in any one of SEQ ID NOS. 692-2292.
3. An isolated antigenic peptide that is an analog of an antigenic peptide according to any one of SEQ ID NOS. 692-2292.
4. An isolated antigenic peptide comprising a short antigenic amino acid
10 sequence that is identical to at least 5 consecutive amino acids set forth in any one of SEQ ID NOS. 692-2292.
5. An isolated antigenic peptide comprising a short antigenic amino acid sequence that is identical to or contains no more than one conservative amino acid substitution over at least 7 consecutive amino acids set forth in any one of SEQ ID NOS. 692-
15 2292.
6. A kit for the detection of antibodies against a particular GPCR in a sample comprising:
 - a) an isolated antigenic peptide according to any one of claims 1-5 and derived from the particular GPCR, and
 - 20 b) at least one of a reagent or a device for detecting the antibodies.
7. An isolated antibody having high specificity and high affinity or avidity for a particular GPCR comprising a peptide sequence that is identical to any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151,
25 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is identical to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187,
30 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.
8. An isolated antibody having high specificity and high affinity or avidity for a particular GPCR comprising a peptide sequence that is at least about 90% identical to any

one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using the peptide sequence that is
5 at least about 90% identical to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

9. An isolated antibody having high specificity and high affinity or avidity for a
10 particular GPCR comprising a peptide sequence that is an analog to any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using an isolated antigenic peptide comprising the
15 peptide sequence that is the analog to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

10. An isolated antibody having high specificity and high affinity or avidity for a
20 particular GPCR comprising a peptide sequence that is identical to at least 5 consecutive amino acids set forth any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced
25 using a short isolated antigenic peptide comprising the at least 5 consecutive amino acids set forth in the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

30 11. An isolated antibody specific for a particular GPCR comprising a peptide sequence that is identical to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028,

1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 5 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is identical to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 10 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

12. An isolated antibody specific for a particular GPCR comprising a peptide 15 sequence that is at least about 90% identical to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 20 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using the peptide sequence that is at least about 90% identical to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 25 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

30 13. An isolated antibody specific for a particular GPCR comprising a peptide sequence that is an analog to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028,

1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 5 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is the analog to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 10 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

14. An isolated antibody specific for a particular GPCR comprising a peptide 15 sequence that is identical to at least 5 consecutive amino acids set forth any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 20 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using a short isolated antigenic peptide comprising the at least 5 consecutive amino acids set forth in the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 25 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

30 15. A kit for the detection of antibodies against the particular GPCR of claim 5 comprising:

a) an isolated antibody according to any one of claims 7-14, and

b) at least one of a reagent or a device for detecting the antibody.

16. An assay for the detection of a particular GPCR in a sample, comprising:

a) providing an isolated antigenic peptide according to any one of claims 1-5,

b) contacting the isolated antigenic peptide with the sample under conditions suitable
5 and for a time sufficient for the antigenic peptide to bind to one or more antibodies specific
for the particular GPCR present in the sample, to provide an antibody-bound antigenic
peptide, and

c) detecting the antibody-bound antigenic peptide, and therefrom determining whether
the sample contains the particular GPCR.

10 17. The assay of claim 16 further comprising the step of binding the isolated
antigenic peptide or the antibody to a solid substrate.

18. The assay of claim 16 or 17 wherein the sample is an unpurified sample.

19. The assay of any one of claims 15-18 further comprising, prior to the
contacting, obtaining the sample from a human being.

15 20. The assay of any one of claims 15-19 wherein the assay is selected from the
group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a
radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay
(ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an
immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an
20 immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a
biosensor assay, and a low-light detection assay.

21. An isolated nucleic acid molecule encoding an antigenic peptide according to
any one of SEQ ID NOS. 692-2292.

22. The isolated nucleic acid molecule according to claim 21 wherein the
25 molecule encodes a naturally occurring human antigenic peptide.

23. An isolated nucleic acid molecule encoding an antigenic peptide that is at least
about 90% identical to any one of the antigenic peptides set forth in SEQ ID NOS. 692-2292.

24. The isolated nucleic acid molecule according to claim 23 wherein the
antigenic peptide is at least about 95% identical to the antigenic peptide.

30 25. The isolated nucleic acid molecule according to claim 23 or 24 wherein the
molecule encodes a naturally occurring human antigenic peptide.

26. A process for producing an isolated polynucleotide comprising hybridizing a nucleotide encoding an antigenic peptide according to any one of SEQ ID NOS. 692-2292 to genomic DNA under highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

5 27. A method of identifying an amino acid sequence for an antigenic peptide from a candidate polypeptide sequence wherein the antigenic peptide has a length of about 5 to about 100 amino acids, the method comprising:

 a) searching the candidate polypeptide sequence using a comparison window of the length, and

10 b) selecting against amino acid sequences of the length and having at least 3 characteristics selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8) tryptophan, and 9) at least five consecutive amino acids comprising
15 no charged amino acids.

 28. The method of claim 27 wherein the method further comprises selecting against at least 5 of the characteristics.

 29. The method of claim 27 wherein the method further comprises selecting against at least 7 of the characteristics.

20 30. The method of claim 27 wherein the method further comprises selecting against the 9 characteristics.

 31. The method of any one of claims 27-30 wherein the method further comprises:

 c) selecting against amino acid sequences of the length and having at least one of the following additional characteristics 1) sequences having at least 5 consecutive amino
25 acids that are identical to an alternative amino acid sequence from an alternative polypeptide that is different from the candidate polypeptide, 2) posttranslational modification sites, and 3) highly hydrophobic sequences.

 32. The method of claim 31 wherein the posttranslational modification sites are phosphorylation or glycosylation sites.

30 33. The method of claim 31 or 32 wherein the method further comprises selecting against at least 2 of the additional characteristics.

34. The method of claim 31 or 32 wherein the method further comprises selecting against the 3 additional characteristics.

35. The method of any one of claims 27-34 wherein the method further comprises performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence.

5 36. The method of any one of claims 27-34 wherein the method further comprises performing a BLAST analysis for the candidate polypeptide sequence.

37. The method of any one of claims 27-36 wherein the antigenic peptide has a length from 6 amino acids to about 50 amino acids.

38. The method of any one of claims 27-36 wherein the antigenic peptide has a
10 length from 6 amino acids to about 20 amino acids.

39. The method of any one of claims 27-36 wherein the antigenic peptide has a length of about 20 amino acids.

40. The method of any one of claims 27-39 wherein the polypeptide is a protein.

41. The method of any one of claims 27-40 wherein the polypeptide is a human
15 protein.

42. The method of any one of claims 27-41 wherein the polypeptide is a naturally occurring protein.

43. An isolated antigenic peptide that is specific for the candidate polypeptide of any one of claims 27-42 that is produced according to the method of any one of claims 27-42.

20 44. An antigenic peptide that is at least about 90% identical to the isolated antigenic peptide of claim 43.

45. An isolated antigenic peptide that is an analog of the isolated antigenic peptide of claim 43.

46. An isolated antigenic peptide comprising a short antigenic amino acid
25 sequence that is identical to at least 5 consecutive amino acids of the isolated antigenic peptide of claim 43.

47. An isolated antigenic peptide comprising a short antigenic amino acid sequence that is identical to or contains no more than one conservative amino acid substitution over at least 7 consecutive amino acids of the isolated antigenic peptide of claim
30 43.

48. A kit for the detection of antibodies against the candidate polypeptide of any one of claims 43-47 in a sample comprising:

- a) an isolated antigenic peptide according to any one of claims 43-47 and derived from the candidate polypeptide, and
- b) at least one of a reagent or a device for detecting the antibodies.
49. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 43, wherein the antibody was produced using the isolated antigenic peptide of claim 43.
50. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 44, wherein the antibody was produced using the isolated antigenic peptide of claim 44.
51. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 45, wherein the antibody was produced using the isolated antigenic peptide of claim 45.
52. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 46, wherein the antibody was produced using the isolated antigenic peptide of claim 46.
53. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 47, wherein the antibody was produced using the isolated antigenic peptide of claim 47.
54. The isolated antibody of any one of claims 49-53 wherein the antibody has high specificity and high affinity for the candidate polypeptide.
55. A kit for the detection of antibodies against the candidate polypeptide of any one of claims 43-47 comprising:
- a) an isolated antibody according to any one of claims 49-53, and
- b) at least one of a reagent or a device for detecting the antibody.
56. An assay for the detection of a candidate polypeptide in a sample, comprising:
- a) providing an isolated antigenic peptide according to any one of claims 43-47,
- b) contacting the isolated antigenic peptide with the sample under conditions suitable and for a time sufficient for the antigenic peptide to bind to one or more antibodies specific for the candidate polypeptide present in the sample, to provide an antibody-bound antigenic peptide, and
- c) detecting the antibody-bound antigenic peptide, and therefrom determining whether the sample contains the candidate polypeptide.

57. The assay of claim 56 further comprising the step of binding the isolated antigenic peptide or the antibody to a solid substrate.

58. The assay of claim 56 or 57 wherein the sample is an unpurified sample.

59. The assay of any one of claims 56-58 further comprising, prior to the
5 contacting, obtaining the sample from a human being.

60. The assay of any one of claims 56-59 wherein the assay is selected from the group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay (ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an
10 immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a biosensor assay, and a low-light detection assay.

61. An isolated nucleic acid molecule encoding an antigenic peptide according to any one of claims 43-47.

15 62. The isolated nucleic acid molecule according to claim 61 wherein the molecule encodes a naturally occurring human antigenic peptide.

63. An isolated nucleic acid molecule encoding an antigenic peptide that is at least about 90% identical to any one of the antigenic peptides set forth in claims 43-47.

64. The isolated nucleic acid molecule according to claim 63 wherein the
20 antigenic peptide is at least about 95% identical to the antigenic peptide.

65. The isolated nucleic acid molecule according to claim 63 or 64 wherein the molecule encodes a naturally occurring human antigenic peptide.

66. A process for producing an isolated polynucleotide comprising hybridizing a nucleotide encoding an antigenic peptide according to any one of claims 43-47 to genomic
25 DNA under highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

SEQ ID NO:	LSID	Gene	Source ID	Sequence	Code	SpeciesName
526	160397	Latrophilin-2	NP_036434.1	<p> MVSSGCRMRS LWFILVISFL PNTEGFSRAA LPFGLVRREL SCEGYSIDL RCPGSDVMIE SANYGRITDDK ICDADPFQME NTDCYLPDAF KIMTQRCNNR TQCVVITGSD VFPDPCPGTY KYLEVQYECV PYIFVCPGTL KAIWDSPCIT EAEQKAGAWC KDPLOAADKI YEMPTWPTYT DTLIEYASLE DFQNSRQTTT YKLPNRVDGT GFVVYDGA VF FNKERTRNIV KFDLRTRIKS GEAINYANY HDTSPYRWGG KTDIDLAVDE NGLWVYATE QNNGMVISQ LNPYTLRFEA TWETVYDKRA ASNAFMICGV LYVRSVYQD NESETGKNSI DYTNTRLNR GEYVDVFPFN QYQYIAADV NPDNQLYVW NNNFILRYSL EFGPPDPAQV PTTAVTITSS AELFKTIIST TSTTSQKGP M STTVAGSQEG SKGTPPPAV STTKIPPITN IFPLPERFCE ALDSKGIKWP QTQRGMMVER PCPKGTRGTA SYLCMISTGT WNPKGPDLSN CTSHWVNQLA QKIRSGENAA SLANELAKHT KGPVFAGDVS SSVRLMEQLV DILDAQLQEL KPSEKDSAGR SYNKAIVDTV DNLLRPEALE SWKHMNSSEQ AHTATMLLDT LEAGAFVLAD NLEPTRVSM PTENIVLEVA VLSTEGQIQD FKFPLGIKGA GSSIQLSANT VKQNSRNGLA KLVIYIRSL GQFLSTENAT IKLGADFIGR NSTIAVNSHV ISVSINKESS RVYLTDPVLV TLPHIDPDNY FNANCSFWNY SERMTMGYWS TQGCKLVDTN KTRITCACSH LTNFAILMAH REIAYKDG V H ELLLTVITWV GIVISLVCLA ICIFTFCFR GLQSDRNTIH KNLCINLFIA EFILGIDK TKYAIACPIF AGLLHFFLA AFAWMCLEGV QLYMLVEVF ESEYSRKKY YVAGYLPAT VVGVSAAIDY KSYGTEKACW LHVDNYFIWS FIGPVTIFIL LNIIFLVITL CKMVKHSNTL KPDSSRLNI KSWVLGAFAL LCLLGLTWSF GLLFNEETI VMAYLFTFN AFQGVFIF HCALQKKVRK EYKCFRHSY CCGGLPTESP HSSVKASTR TSARYSSGTQ SRIRRMWNTD VRKQSESSFI SGDINSTSL NQGHSLNNAR DTSAMDITLPL NGNFNNSYSL HKGDYNDVSQ VVDCGLSLND TAFEKMIISE LVHNNLRGSS KTHNLELTP VKPVIIGSSS EDDAIVADAS SLMHSDNPGL ELHHELEAP LIPQRTHSLL YQPQKKVKSE GTDSYVVSQLT AEAEHDHLOSP NRDSL YTSMP NLRDSPYSPES SPDMEEDLSP SRRSENEIDIY YKSMPNL GAG HQLQMCYQIS RGNSDGYTIP INKEGCIPEG DVREGQMQLV TSL ccgcggctagg gagacagcga gccagagctt ggggtgtttt gcgagagcca cggcggggggc tggggcgagt ggcggcgalg gctgaaggct gcgctctgca acctgaaga gccgctgcat tgagagggcca ggagacagggga gaccgggtgcg atggcagagc ggggcccccgc ccgctctgcgc gggccggccc ggcctggcctg agccggccgga ggagcgggggc tgcctctgcg cgtccatgga gcaigcgggaa gggcgaact ccggagcgc gcgtccctgc gcgcggcgg ccgactctg aaggagccga gcccgccgcg accgccagg aagagacccc cgtccagcc ccagagcccg ctggccgggg gcggcgccag acatcgagagg gcagcggagc gagcagcgc ccgggagaggg ccggcgccgg agggcgccgc agcaatgcgc ggcccgctag ggctgctctg ctctctgc ctggggctgc tgggtcggc cgggccagc ggccggcgc cgcctctctg ccggcgccc tgcagctgcg acggcgaccg tcgggtggac tgcctcgagg agggctgac ggccgtgccc gagggggctca gcgcctcac ccaagcgctg gatacagta tgacaacat tactcagtg ccagaagtg cattaaaga ctctcttt ctagaagagc lcaaatggc gggaacgac ctctcttta tcaaccaaa ggcttgcctt gggtgaaag aactcaaat tcaacgctc cagataaalc agttgaaaac agtaccagct gaagccattc gagggtgag tgcctgag tcttgcgt tagatgccaa ccattacc cagtcgccg aggacagttt tgaaggactt </p>	P	Homo sapiens
527	160411	G Protein-Coupled Receptor GPR48	NM_018490		A	Homo sapiens

[illegible]

528	160411	G Protein- Coupled Receptor GPR48	NP_060960.1	<p>atgttatttaa taataataga agaagaaga ataaagctta gtccgtgic ttuaaaatt aaaaatttta ctgtattcc atciatgggc tttagacctt ttactgggtg gagtctaa gttataatig ttcaatagt ttittgaaca gtgtgtaaa tcaatagcaa accocacigoc atattagttt ttctgaatat actaaaaaa tccagctaga ttgagttta ataatnaac tglacatact gtgcalataa tgaattttta tcttatgtaa attattttta gaacacaaagt tgggaaagt ggctcttgt catttggtt aattaaagt acctccataa ctatagtggc tgccagtagc agactgttaa atttggtt atatacttt tgcattgtta atagcttttg ttgtacattg tcaagttaaa aaaaacagaa tctttgata tcaaatcat gtagttgtg taaatgtgg gaaggaatta ttacaggtg gtgttaatt tgaaggcca actattaca agtttataa attgcatca tglattttta cacatcigt aatatataa tcaatacttg gtaagaaact cctaattaaa aggttttc caaaatcag gttatgaaa atttttcatt ttattcatt aaaaaciaga ataacagata laaaaagt ttaactttg tglattagg tatgaatac aattgttac tcaagtgtt gaattattaa agttttaga aagcaaaaa a</p> <p>MPGPLGLLCF LALGLLSAG PSGAAPPLCA APCSCDGD RR VDCSGKGLTA VPEGLSAFTQ ALDISMNNIT QLPEDAFKNF PFLEELQLAG NDLSFIHPKA LSGLKELKVL TLQNNQLKTV PSEAIRGLSA LQSLRLDANH ITSVPEDSFE GLVQLRHLWL DDNSLTEVPV HPLSNLPTLQ ALTLALNKIS SIPDFAFTNL SSLVVLHLHN NKIRGLSQHC FDGLDNLETL DLSYNNLGEF PQAIKARPSL KELGFHSNSI SVIPDGA FDG NPLLRTHLY DNPLSFVGN SASHNLSDLHS LVIRGASMVQ QFPNL TGT VH LESLTLTGTK ISSIPNNLCQ EQKMLRTL DL SYNNIRDLPS FNGCHALEEI SLQRNQYQI KEGTFQGLIS LRILDSRLNL IHEHSRAFA TLGPITNLDV SFNELTSFT EGPNGLNQLK LVGNFKLKEA LAAKDFVNL R SLSVYAYQC CAFWGCDSA NLNTEDNSLQ DHSVAQEKGT ADAANVTSTL ENEEHSQIII HCTPSTGAFK PCEYLLGWSM IRLTVWFIL VALFFNLLV LITTFASCTSL PSSKLFIGLI SVSNLFMGIY TGILTFLDAV SWGRKAEFGI WWETGSGCKV AGFLAVFSSE SAIFLLMLAT VERSLSAKDI MKNGKSNHLK QFRVAALS AF LGATVAGCFP LFHRGEYSAS PLCLPFTGE TPSLGFTVTL VLLNSLAFL MAVIYTKLYC NLEKEDLSEN SQSSMIKHVA WLFTNCIFF CPVAFFSFAP LIT AISISPE IMKSVTLIFF PLPACLNPLV YVFPNPKFKE DWKLLKRRVT KKS GSVSVSI SSQGGCLEQD FYYDCGMYSH LQGNLTVDCD CESFLLTKPV SKHLKSHS CPALAVASCQ RPEGYWSDCG TQSAHSDYAD EEDSFVSDSS DQVQACGRAC FYQSRGFPLV RYAYNLPRVK D</p>	P	Homo sapiens
529	160435	LS160435 Receptor	AX147830	<p>aactggaaagg gcaagcagctt ggcggccacg aacacttct caagcacctt gaggtaaccac ggcttgcaag ctgggtggcgtg goccccgag tccggggctc tgaaggcacgg ccgttgactt aagcgttgca tccgtgtacc tggagaaact ctgagctctc accigtact tctccgctg ctctgcaca gagcccgggc gaggaacctt ccaaggatgca gggtcccgaaac agcacgggoc cggacaacgc gacgtgcag atgtgtcgga acccgccgat cgcgggtggc cggccgltg tglactcgtt gggtggcgccg gtcacatcc cgggcaact ctctctctg tgggtgtgtt gcccgcgtat gggtggccaga tcccgctgg tcatctcat gatcaactg agcgtcacgg acctgatgt ggccagcgtg ttgccttcc aaatctact ccatlgcaac cggccact gggtatcgg gggtgtgtt tgcacgtgg tgaaccgtgg cttttacgca aacatgtatt ccagcatctt caccatgacc tglatcagcg tggagcgctt cctggggggc ctgtaccgc tgaactcaa ggcctggcgc cggcgtgtt accgggtggc cgggtgtgca gggaactggc tgcgtctctt gaccggcgtg tcccgctgg ccgcaacgca tctcaactac ccgtgtcacg ccctgggcat calcacctgc ttgagcttcc tcaagtggac gtagtccoc agcgtggcca tgggtggcgtt gttctctc accatttca tctgtgtt cctcatccg ttgtgtalca ccgtgtggctg ttacacggcc accatcttca agctgttgg cacggaggag gcgcacggcc gggaagcagcg gaggcgcgcg gtagcggtgg ctgtcggcc ttgtcacct</p>	A	Homo sapiens

530	160435	LS160435 Receptor	LR80	<p>gcttcgccc caacaacttc gctcctctgg cgcacalcgt gtagccgcctgg ttctacggcga agagctacta ccacgtgtac aagctcacgc tgtgtctcag ctgtctcaac aactgtctgg acccgttgt ttactattt gcttccgggg aaltccagct ggccttgcgg gaaatttgg gcttccggccg ggtgtccaga gacaccttgg acacgtccgc cgttagagcttc ttctccgcca gtagccacgtc cgttgcctcc gtagcccggtg cgcaccciga aggttagtggag gtagccacca ggcocggcctt ccagtagggcag gtaggtgtgt tctgagctcc gggggcgccag ctggagagc cggggcgcca gcttggagga tccagggggc cgttagagag ccaaggttgc agaggtttag gtagaacagc tgcgttctc ccagctactc cagtagccgg gtagggaggg gcttccaggg ttaltctc ccaggtcactc cagtagccacc ggttagtggag ggttccaggg ctactcag gtagtaggaaa caagcaaac ccagcagggc acaggggtgt tttaltctc cagtaggggt ccttgcctct cgttgcaggg gtagcagctg tgcaccag cccggglaa ttigtatt tttttag agctggggctg tcaocccga gctcttaga cactctcac accgtccat acccgaggat gtagattcaa ccagccccc acgtccacc actgggttc tggatalctt cgttggggcga acgtggagcc ccatcccg cctcttccc tgcagacatc gctcttagc acactgtcc ataccggagg atgtagttt aaaccgccc accgctacc cgtactgggt tctggatac cctgtgggg gaaactggag cccactccc agctcttc cctgtctga tcttccctia gtttgggtc tggccttc caltctctc caggggttct ggttccgta gcccgggtga cgcggaatt tctgttatt tcactcaggg gctactgtgt tctgttgggt ggaattctc ttacagagg ggccttgggg cctctggcag tcaagctact tccgttcca cttccctca cacacacac cccctggc ggaattc</p>	P	Homo sapiens
531	160889	Platelet Activating Receptor Homolog (H963)	NM_013308	<p>MQVPNSTGPD NATLQMLRNP AIAVALPVVY SLVAAVSIPG NLFSLWVLCR RMGPRSPSVI FMNLSVTDL MLASVLPFQI YYHCNRHHWV FGVLLCNVVT VAFYANMYSS ILTMTCSIVE RFLGVLYPLS SKRWRRRRYA VAACAGTWLL LLTALSPLAR TDLTYPVHAL GHITCFDVLK WTMLPSVAMW AVFLTFIL LFLPFVTV ACYTATILKL LRTEAHGRE QRRRAVGLAA VVLLAFVTCF APNNFVLLAH IVSRLFYKGS YYHYVKLTLC LSCLNNCLDP FVYTFASREF QLRLREYLGC RRVPRDLDLT RRESLFSART TSVRSEAGAH PEGMEGATRP GLQRQESVF gaaatggcc aaagggcctt agtctctt gaaagctgc agcaaggctt gcttaggtc acagaaagaa gcccacgtt ttgggtggg tttagatgt gattctgaga tcaagctgac tgaagctgaa tcttggctt atacttacc agctacacaa ccttggagtc ttagaaatt ttctttca atagcagtc atcttacti tccctcaaga tgaacacag ttcttcttc tgcocagtt ataaagatc ggagccattc acgtatttt ttattagt ttcttgtt ggaattatg ggaattgtt tgaaccttgg gcttttacc agaaagaatc gaaacacagg tgttggagca tctactaat taattgtct acagcgtt tcttcttacc tcttggcatta ccagtgaaaa ttgttgtga cttgggtgtg gcaccttggga agctgaagat attccactgc caagtaacag cctgcctcat ctatacaat atgtattat caattact cttagcattt gtagcagtg accgtgtct tcaagctgaca cacagctgca agatctaccg aatacaagaa cccggatttg ccaaaatgat atcaacccgtt ggttggctaa tggctctct taaatgggt ccaaaataga tgaattccat caaagacatc aaggaanaagt caaatgtggg ttttagggag tttaaaaagg aatttggag aatttggcat tgcctgaca atttcatatg ttagcaata tttaaatt tctagccat catttaala tcaattgcc ttgtaatgc acagctctac agaacaag alaaagaaaa ttaccacaa ttagaaaaag ctctacaa calactttaa ttagaccagg gctacatcat atgttgtt ccttaccaca ttgocgat cccgttacc cttagccaga cagaagatc aactgattgc tcaacaggga ttactctt caaagccaaa gaggctacac tgccttggc tgttctgaac ctgttcttgg atccatctt gtaactcac ctctcaaaag ccttccgtc aaaggtcact gtagcttttg cctcacctaa agagaccacag gctcagaag aaaaattaaag atgtgaanaa aatgacataa agacaggatt ttgtgtcta ccaatttgg ccttactgga ccalaaagt aattatgt tgaagata aaaaaaaa aaagcggcc gc</p>	A	Homo sapiens
532	160889	Platelet Activating Receptor	NP_037440.1	<p>MTNSSFFCPV YKDLPEFTYF FYLVFLVGII GSCFATWAFI QKNTNHRCSV IYLNLLTAD FLTLALPVK IVVDLGVAPV KLKIFHCQVT ACLIYNMYL SIIFLAFVSI DRCLQTHSC KIYRIQEPGF AKMISTVVWL MVLLIMVPNM MIPKDIKEK</p>	P	Homo sapiens

535	161214	Galanin Receptor GalR3	NM_003614	<p>toaccaggfgc ccgctcgaig gggagagaggc lgaigocacag aacatttacc lggacagccc agggagagfag gggggccgfgg</p> <p>cagtgcctgt ggtctttggc ctaattcttc tgcitgggcac agtgggcaat gggctfgfagc tggcagfagt cctgcaagt</p> <p>ggcccgagfag cctggcagga gctggcagc accacggacc tggtaact caacttggcg gfgcagfacc tctgttcat</p> <p>ccitgctgc gfgcccttc agggccacc ciacacgctg galgccitggc tctttggggc cctcgtctgc aaggccgfgc</p> <p>acctgcat ciactacc atgtacgcca gcaagctttac gctggcgtct gctcctgggg acaggtacct ggcctgctgc</p> <p>caaccgctgc gctggcgcg cctgcgcacg ccgcgtaacg ccgcgcgcg agtgggggctg gfgtggctgc tggcgcgct</p> <p>cttcggcg cctactca gctactagg caactggcg laccggcg lggagctctg cgttccggcc tgggagagacc</p> <p>cgcgcgcgcg cgccttggac gggccacct tgcctggccg ciactctg cccgltgctg tgggagctt ggcctaggcg</p> <p>cgcacgctgc gcttctgt ggcggccgctg ggtcccgcg ggcctggcgcc ggcggagggcg cggcgagggcg cgcagggcg</p> <p>cgcggggcg gcatgctg cgttggccg gcttaccg cctgctggg gtcgcacca cggctcalt cgtgtctt</p> <p>ggtagggccg ctggcttc agccggcca cctacgctg ccgcctggcc tcaactgoc tggctaccg caactctgc</p> <p>ctcaaccg tgcctacc gctgcctcg cgcctcttc ggcgcgtt ccgcgcctg tggcgctg ggcggcgag ggcctggcg</p> <p>ccgcacct ggcggcgcg ccttggctg cgttccccc gctgctcg gccaaccg cgtcccccga gtagccggcg</p> <p>claggggag gctgtggt ggtggcgcc agggcccgga gccaaggag ggaaccgctt acggcgcgga ggcctggccga</p> <p>ggaccggaat aaacctgc gctggagtc cgcctg</p> <p>MADAQNISLD SPGSGAVAV PVVAFALIFLL GTVGNGLVLA VLLQPGSAW</p> <p>QEPGSTDLF ILNLA VADLC FILCCVPFQA TTYTLDAWLF GALVCKAVHL</p> <p>LYLTM YASS FTLA AVSVDR YLA VRHPLRS RALRTPRNAR AAVGLVWLLA</p> <p>ALFSAPYLS YGTVRYGALE LCVPAWEDAR RRALDVATFA AGYLLPVAVV</p> <p>SLAYGRTLRF LWAAVGPAGA AAAEARRRAT GRAGRAMLAV AALYALCWGP</p> <p>HHALICFWY GRFAFSPATY ACRLA SHCLA YANSLNPLV YALASRHFA</p> <p>RFRLWPCGR RRRHRARRAL RRVRPASSGP PGCPGDARPS GRLLAGGGQG</p> <p>PEPREGPVHG GEAAARGPE</p>	Homo sapiens
537	161221	Urotensin-II Receptor (GPR14)	NM_018949	<p>atgggcctga ccccggagtc ccggagcagc ttccctgggc tggccggccac cggcagctct gfgccggagc cgcctggcg</p> <p>cccaacga accctcaaca gctctgggc cagcccgacc gaggccagct ccttggagga cctggfggcc acgggacaca</p> <p>tgggactct gctgtccgc algggcgctgg tggcgctgg gggcaacgoc tacaacgctgg tggtaacctg ccgttccctg</p> <p>cgtgcggfag cctccalgia cgtctacg gtaacctgg cgttggccga cctgtcttgc cgtctgac tccctcat</p> <p>cgtggccacc taccgacca aggaagtgcca ctccggggac gtagggctgoc gctgctctt cggcctggagc ttcttgacca</p> <p>tgcacgocag catcttacc ctagocgta tgaagcagcga gcttaccgtt gctgctctg ggcggcttga caocgtgca</p> <p>cggcccaagg gctacacga cgtcttggcg ctgggacact ggtcttggc gcttctgctg acgctgtcccg tgaactggc</p> <p>calgctggcg gtagccggcg gctccaaagg ccttggctcg cccggctgg gcccggcgcc ccaaccggcc taactgacgc</p> <p>tgtctctgc caacgcat cggggggccg ggtctgctat cgggctgctc taccggcgcc tggcccgccg ctaccgccc</p> <p>tgcagcgcg cctcttcaa gcgggcccg cggccggggg cgcggcgctt ggccttggfag ctggggcagc tgcgtctt</p>	Homo sapiens

538	161221	Urotensin-II Receptor (GPR14)	NP_061822.1	<p>ctggggcctgc ttccctgoot tctggcctgctg gacagctgctc gccagtlacc accaggccccc gctggggcccg cggagcggcgc gcalcgtcaa ctacgtgaac acctgtcctca cctacggcaaa cagctggccc aacctctcc tctacagct gctcacagg aactaccgc accactgctg cggccgcgctg cggggccccc gacagggggg agggccggggg cccgttccct cctgcagccc ccggccccc ttcaagcgtc gttccggccg ctcctgctc tctgtagcc cacaagccac tgaagccctc gctcggccc cagcggcccc ggcccgaact ggcgccagg gtcocaggcc cccggcgtga MALTPESPSS FPLAATGSS VPEPPGGPNA TLNSSWASPT EPSSLEDLVA TGTGTLLSA MGWVGUVGNA YTLVVTCSL RAVASMYVYV VNLALADLLY LLSIPFIVAT YVTKEWHFCD VGRVLFGLD FLTMHASIFT LTMSSERYA AVLRPLDTVQ RPKGYRKLAA LGTWLLALL TLPVMLAMRL VRRGPKSLCL PAWGPRAHRA YLTLFATSI AGPGLLIGLL YARLARAYRR SQRASFRRAR RPGARALRLV LGIVLLFWAC FLFWLWQLL AQYHQAPLAP RTARIVNYLT TCLTYGNSCA NPFLYTLT.R NYRDHLGRV RGPGGGGRG PVPSLQPRAR FQRCGRSL SCSQPITDSL VLAPAAPAR APEGPRAPA atggcttgca atggcagtc ggccaggggg cacttgacc ctgaggacti gaacdtgact gaacaggcac tgaactcaa giacctgggg oocacagaga cagagctggt calgcccac tggccacat acctgtgact cttcgtgctg ggccgtgctg gcaatgggct gaactgctg gctactctg gccacaagg cagcgcacg cctaccaat actacctt cagcctggcc gtgtcggacc tgcgtgctc gctggggg cgtccctgg agctctatga gtagtggcac aactacctt tctcgtggg cgttggggc tgcatttcc gcacgtaact gtttgaagtg gtcgtccctg cctcagctc caacgtact gcccagagc tggaaagcta tggcccgct ggcaaccac tcaaggccag gtccatggc agcggggccc atgtgcggc agtgcctggg ggcgtctggg gcttgccat gctctgctc cggcccaaca ccagctcgca cggcatccgg cagctgcacg tggccggc gggcocagtg ccagactcag ctgttgcat gctgttcgc ccacggccc tctacaat ggttagtgcag accaccgc tgcctctt ctgcctgcc atggccalca tgaagctgct ctactgctc atggggctc gactgcggcg ggagaggctg cgtcctgc agggagccaa ggccaggggc tctgcagcag ccaggtccag ataacctgc aggtccacgc agcagctc gggcgggaga caagtgaaca agatgctgt tgcctgctc gtagtggctt gcalctgctc ggcccgctc cagccgcat gggtcagtg gtagcgtg tcaagtga cagatggct gcaactggcc ttccagcag tgcacgtcat ctcggcatc ttcttacc tgggctggc ggccacccc gtgtctata gctctata gctcagtc cagccgcttc cgaagacct tccaggaggc cctgctc cggggcctgct gcatcgctc cagaacccc cagcgtccc accgctcag caggatgacc acaggcagca cctgtgtga tggggctcc cgggcagct gggtccacc cctggctggg aacgatggc cagaggcgca gcaaggacc gatcactct ga MACNGSAARG HFDPEDLNLT DEALRLKYL G PQQTELFMPI CATYLLIFVV GAVGNGLTCL VILRHKAMRT PTNYLFLSLA VSDLLVLLVG LPLELYEMWH NYPFLLGVG CYFRTLIFEM VCLASVLNVT ALSERYVAV VHPLQARSMV TRAHVRRVLG AVWGLAMLC LPNTSLHGIR QLVHPCRGV PDSA VCMVLR PRAL YNMVQ T TALLFFCLP MAIMSVLYLL IGLRLRRL LLMQEA KGRG SAAARSRYTC RLQQHDRGR QVTKMLFVLV VVFICWAPF HADRVMWVSV SQWTDGLHLA FQHVHVISGI FFYLGSAANP VLYSLMSSRF RETFQEALCL GACCHRLRPR HSSHLSRMT TGSTLCDVGS LGSWVHPLAG NDCPEAQQET DPS alggctaac tgaacaata cactgaaca tcaagatgg gtagcaacag taaccagact gctgaagatt actgaatt cactaatg aaatttcaat actccctia tgaacacc tatalccta taltccta tttctcgt tggctcgt gctaacagtg cagcctgtg gggtctgctc cgtctcalca gcaagaanaa taaagccatc attttcalga tcaactctc tggggctggc cttgctcgt tattatctt</p>	P	Homo sapiens
539	161249	G Protein- Coupled Receptor GPR66	NM_006056	<p>atggcttgca atggcagtc ggccaggggg cacttgacc ctgaggacti gaacdtgact gaacaggcac tgaactcaa giacctgggg oocacagaga cagagctggt calgcccac tggccacat acctgtgact cttcgtgctg ggccgtgctg gcaatgggct gaactgctg gctactctg gccacaagg cagcgcacg cctaccaat actacctt cagcctggcc gtgtcggacc tgcgtgctc gctggggg cgtccctgg agctctatga gtagtggcac aactacctt tctcgtggg cgttggggc tgcatttcc gcacgtaact gtttgaagtg gtcgtccctg cctcagctc caacgtact gcccagagc tggaaagcta tggcccgct ggcaaccac tcaaggccag gtccatggc agcggggccc atgtgcggc agtgcctggg ggcgtctggg gcttgccat gctctgctc cggcccaaca ccagctcgca cggcatccgg cagctgcacg tggccggc gggcocagtg ccagactcag ctgttgcat gctgttcgc ccacggccc tctacaat ggttagtgcag accaccgc tgcctctt ctgcctgcc atggccalca tgaagctgct ctactgctc atggggctc gactgcggcg ggagaggctg cgtcctgc agggagccaa ggccaggggc tctgcagcag ccaggtccag ataacctgc aggtccacgc agcagctc gggcgggaga caagtgaaca agatgctgt tgcctgctc gtagtggctt gcalctgctc ggcccgctc cagccgcat gggtcagtg gtagcgtg tcaagtga cagatggct gcaactggcc ttccagcag tgcacgtcat ctcggcatc ttcttacc tgggctggc ggccacccc gtgtctata gctctata gctcagtc cagccgcttc cgaagacct tccaggaggc cctgctc cggggcctgct gcatcgctc cagaacccc cagcgtccc accgctcag caggatgacc acaggcagca cctgtgtga tggggctcc cgggcagct gggtccacc cctggctggg aacgatggc cagaggcgca gcaaggacc gatcactct ga MACNGSAARG HFDPEDLNLT DEALRLKYL G PQQTELFMPI CATYLLIFVV GAVGNGLTCL VILRHKAMRT PTNYLFLSLA VSDLLVLLVG LPLELYEMWH NYPFLLGVG CYFRTLIFEM VCLASVLNVT ALSERYVAV VHPLQARSMV TRAHVRRVLG AVWGLAMLC LPNTSLHGIR QLVHPCRGV PDSA VCMVLR PRAL YNMVQ T TALLFFCLP MAIMSVLYLL IGLRLRRL LLMQEA KGRG SAAARSRYTC RLQQHDRGR QVTKMLFVLV VVFICWAPF HADRVMWVSV SQWTDGLHLA FQHVHVISGI FFYLGSAANP VLYSLMSSRF RETFQEALCL GACCHRLRPR HSSHLSRMT TGSTLCDVGS LGSWVHPLAG NDCPEAQQET DPS alggctaac tgaacaata cactgaaca tcaagatgg gtagcaacag taaccagact gctgaagatt actgaatt cactaatg aaatttcaat actccctia tgaacacc tatalccta taltccta tttctcgt tggctcgt gctaacagtg cagcctgtg gggtctgctc cgtctcalca gcaagaanaa taaagccatc attttcalga tcaactctc tggggctggc cttgctcgt tattatctt</p>	A	Homo sapiens
540	161249	G Protein- Coupled Receptor GPR66	NP_006047.1	<p>atggcttgca atggcagtc ggccaggggg cacttgacc ctgaggacti gaacdtgact gaacaggcac tgaactcaa giacctgggg oocacagaga cagagctggt calgcccac tggccacat acctgtgact cttcgtgctg ggccgtgctg gcaatgggct gaactgctg gctactctg gccacaagg cagcgcacg cctaccaat actacctt cagcctggcc gtgtcggacc tgcgtgctc gctggggg cgtccctgg agctctatga gtagtggcac aactacctt tctcgtggg cgttggggc tgcatttcc gcacgtaact gtttgaagtg gtcgtccctg cctcagctc caacgtact gcccagagc tggaaagcta tggcccgct ggcaaccac tcaaggccag gtccatggc agcggggccc atgtgcggc agtgcctggg ggcgtctggg gcttgccat gctctgctc cggcccaaca ccagctcgca cggcatccgg cagctgcacg tggccggc gggcocagtg ccagactcag ctgttgcat gctgttcgc ccacggccc tctacaat ggttagtgcag accaccgc tgcctctt ctgcctgcc atggccalca tgaagctgct ctactgctc atggggctc gactgcggcg ggagaggctg cgtcctgc agggagccaa ggccaggggc tctgcagcag ccaggtccag ataacctgc aggtccacgc agcagctc gggcgggaga caagtgaaca agatgctgt tgcctgctc gtagtggctt gcalctgctc ggcccgctc cagccgcat gggtcagtg gtagcgtg tcaagtga cagatggct gcaactggcc ttccagcag tgcacgtcat ctcggcatc ttcttacc tgggctggc ggccacccc gtgtctata gctctata gctcagtc cagccgcttc cgaagacct tccaggaggc cctgctc cggggcctgct gcatcgctc cagaacccc cagcgtccc accgctcag caggatgacc acaggcagca cctgtgtga tggggctcc cgggcagct gggtccacc cctggctggg aacgatggc cagaggcgca gcaaggacc gatcactct ga MACNGSAARG HFDPEDLNLT DEALRLKYL G PQQTELFMPI CATYLLIFVV GAVGNGLTCL VILRHKAMRT PTNYLFLSLA VSDLLVLLVG LPLELYEMWH NYPFLLGVG CYFRTLIFEM VCLASVLNVT ALSERYVAV VHPLQARSMV TRAHVRRVLG AVWGLAMLC LPNTSLHGIR QLVHPCRGV PDSA VCMVLR PRAL YNMVQ T TALLFFCLP MAIMSVLYLL IGLRLRRL LLMQEA KGRG SAAARSRYTC RLQQHDRGR QVTKMLFVLV VVFICWAPF HADRVMWVSV SQWTDGLHLA FQHVHVISGI FFYLGSAANP VLYSLMSSRF RETFQEALCL GACCHRLRPR HSSHLSRMT TGSTLCDVGS LGSWVHPLAG NDCPEAQQET DPS alggctaac tgaacaata cactgaaca tcaagatgg gtagcaacag taaccagact gctgaagatt actgaatt cactaatg aaatttcaat actccctia tgaacacc tatalccta taltccta tttctcgt tggctcgt gctaacagtg cagcctgtg gggtctgctc cgtctcalca gcaagaanaa taaagccatc attttcalga tcaactctc tggggctggc cttgctcgt tattatctt</p>	P	Homo sapiens
541	161251	Purinergic Receptor P2Y10	NM_014499	<p>atggcttgca atggcagtc ggccaggggg cacttgacc ctgaggacti gaacdtgact gaacaggcac tgaactcaa giacctgggg oocacagaga cagagctggt calgcccac tggccacat acctgtgact cttcgtgctg ggccgtgctg gcaatgggct gaactgctg gctactctg gccacaagg cagcgcacg cctaccaat actacctt cagcctggcc gtgtcggacc tgcgtgctc gctggggg cgtccctgg agctctatga gtagtggcac aactacctt tctcgtggg cgttggggc tgcatttcc gcacgtaact gtttgaagtg gtcgtccctg cctcagctc caacgtact gcccagagc tggaaagcta tggcccgct ggcaaccac tcaaggccag gtccatggc agcggggccc atgtgcggc agtgcctggg ggcgtctggg gcttgccat gctctgctc cggcccaaca ccagctcgca cggcatccgg cagctgcacg tggccggc gggcocagtg ccagactcag ctgttgcat gctgttcgc ccacggccc tctacaat ggttagtgcag accaccgc tgcctctt ctgcctgcc atggccalca tgaagctgct ctactgctc atggggctc gactgcggcg ggagaggctg cgtcctgc agggagccaa ggccaggggc tctgcagcag ccaggtccag ataacctgc aggtccacgc agcagctc gggcgggaga caagtgaaca agatgctgt tgcctgctc gtagtggctt gcalctgctc ggcccgctc cagccgcat gggtcagtg gtagcgtg tcaagtga cagatggct gcaactggcc ttccagcag tgcacgtcat ctcggcatc ttcttacc tgggctggc ggccacccc gtgtctata gctctata gctcagtc cagccgcttc cgaagacct tccaggaggc cctgctc cggggcctgct gcatcgctc cagaacccc cagcgtccc accgctcag caggatgacc acaggcagca cctgtgtga tggggctcc cgggcagct gggtccacc cctggctggg aacgatggc cagaggcgca gcaaggacc gatcactct ga MACNGSAARG HFDPEDLNLT DEALRLKYL G PQQTELFMPI CATYLLIFVV GAVGNGLTCL VILRHKAMRT PTNYLFLSLA VSDLLVLLVG LPLELYEMWH NYPFLLGVG CYFRTLIFEM VCLASVLNVT ALSERYVAV VHPLQARSMV TRAHVRRVLG AVWGLAMLC LPNTSLHGIR QLVHPCRGV PDSA VCMVLR PRAL YNMVQ T TALLFFCLP MAIMSVLYLL IGLRLRRL LLMQEA KGRG SAAARSRYTC RLQQHDRGR QVTKMLFVLV VVFICWAPF HADRVMWVSV SQWTDGLHLA FQHVHVISGI FFYLGSAANP VLYSLMSSRF RETFQEALCL GACCHRLRPR HSSHLSRMT TGSTLCDVGS LGSWVHPLAG NDCPEAQQET DPS alggctaac tgaacaata cactgaaca tcaagatgg gtagcaacag taaccagact gctgaagatt actgaatt cactaatg aaatttcaat actccctia tgaacacc tatalccta taltccta tttctcgt tggctcgt gctaacagtg cagcctgtg gggtctgctc cgtctcalca gcaagaanaa taaagccatc attttcalga tcaactctc tggggctggc cttgctcgt tattatctt</p>	A	Homo sapiens

542	161251	Purineric Receptor P2Y10	NP_055314.1	<p>accctccgg atttactatt acatcagcca ccactggcct ttccagagag cccttggctt gctcgtctt tacctgaagt atctcaacat gtaigccagc attgtttcc tgcgtgcat cagctctcaa aggtgcttt ttctctcaa gcocttcagg gccagagact ggaagcgtag gtacagtg ggcacagtg ctgccatctg gtcgttggt gggactgctt gttggcatt tccatccttg agaagcacag acttaacaa caacaagtc tcttgctg atcttgagala caagcaaaag aatgcagtg cgttggtcgg gatgattaca gttcgtgagc ttgcaggatt tggatccca gtagatca tgcattggt tacttggaat actactat ccttgagaca gccacaalg gctttccaa ggatcagta gaggcagaaa gcactgcggg tgggttcat ggtgctgca gttcttcca tctgttcc tccatcat attacttta ttttacac calggtaag gaaacalca ttgagtg tccgtgtc cgaatgcac tgaattcca ccctttgct cgtgcttg caagtctg ctgcttgg gatccaatc ttattact tggcttca gatttgctg accaatc ccggccatggc agttctgta ccgctcccg cctcatgagc aaggaagtg gttcatcaal gattgctaa</p> <p>MANLDKYTET FKMGSNSTST AEIYCNVTNV KFQYSLYATT YILFIPGLL ANSAALWVLC RFISKKNKAI IFMNLVAD LAHVLSPLR IYYYISHHWP FQALCLLCF YLKYLNMYAS ICFLTCISLQ RCFFLLKPER ARDWKRRYDV GISAAIWVW GTACLPFPL RSTDLNNSK CFADLGYKQM NAVALVGMIT VAELAGFVP VIIAWCTWK TTISLRQPPM AFQISERQK ALRMVFMCAA VFFICFTPYH INFIFTMVK ETIUSSCPV RIALYFHPFC LCLASLCLL DPILYYFMAS EFRDQLSRHG SSVTRSLMS KESGSMIG</p>	P	Homo sapiens
543	161293	G Protein- Coupled Receptor Ls161293 [Herpes virus]	NP_042597.1	<p>MATTSATSTV NTSSLATMT TNFTSLTSTV VTTIASLVPS TNSSDYDD LDDVDYEESA PCYKSDTTRL AAQVVPALYL LVFLGLLGN ILVVIIVRY MKIKNLTNML LLNLAISDLL FLTLFWMH YIGMYHDWTF GISLCKLLRG VCYMSLSQV FCILLTVDR YLAVVYAVTA LRFTVTCTGI VTCVCTWFLA GLLSLPEFFF HGHQDDNGRV QCDPYPEMS TNVWRAHVA KVMLSLILP LLIMAVCYV IIRLLRPS KKKYKAIRLI FVMVAYFVF WTPYNIVLL STFHATLLNL QCALSSNLDL ALLITKVAY THCCINPVIY AFVGEKFRH LYHFFHTYVA IYLCKYTPFL SGDGEKGP TRI</p>	P	Equine herpesviri s 2
544	177147	Neuromedin K Receptor-Like (NK-4R)	NM_006679	<p>ggcgaaccc cgaatgacc cggcacagg ggtcccccga cctgcgcgt cctgcggggc gcgtgggct cggggcactc gggtcggcc ccattggct cggcccgagg gaactgagc gctggggagg gctgggggtg gccggcgccg gccgggctga ggaaactgac ctctcccg gccccgaccg cgtcccgic cccggcccg tggggagc cctcgccggc cccggccccc ggcacccgt tctgcagcc gccctggggc gttggcgtct ggtcgtggc ctacggcgcc gttggggccg tggcggtgt cggcaactc g'gg'g'g'at ggtatggtt ggocacaa cgcaltcgga cgttaccaa ctctcttc g'gaacttgg ccttcggca gccggccatg gccggctca accgctgtgt caacttcat taaggctgc accggaagtg g'actcggc gocaaact ggcgttoca g'acttct cccatcac ccggttggc cagcatctac tccatggagg ccatcggtt ggacagat acggccatta ttgacccct gaaagccagg ctgtcggcca cggccacccg g'atcgtatt g'gaagcat ggatcggc atttact g'acttct agtctgta ttcaaatc aaagtacag caggccggtac tcttggctac g'gacgtggc cagaaggtt aagggcaacat ttacgtacc acatgctt catgctct g'gtactgt ttcttggct calcatgggc atccata ccatagtgg aatcagctc tggggagggg agatccagg agacacatgc g'acacgtac agggagcagct g'aaaggccaa cggaaagggtg taaaatgat g'atcatgtt g'gtgtgact ttggcatctg ctggctggcc tatcatct acttcatct caccggcatc tatcagcagc tgaacaggtg g'aaalacatc caggaggtt acctggccag ctcttggctt gccatgact cpacatgta caacccatc atctactgt g'ctgaataa g'agatttct g'ctggcttca agaggccct ccgttgggtc cctttatcc acgtctcag ctacgacgag ctggagctca aagccacag g'ctccacca atggcccttata cacagtgaca agaatg'at ccatgagcgt g'gtatcgac tccaacagtg ggagacagtc caggctcagc caccagaa g'aggggacgac caggaagata</p>	A	Homo sapiens

gagctccaaig tctgctcccg caggaaactoc aagctccact ccaccacagc cagcttcgig agctctccccc acatgctcggt
 ggaagagggc tclgattic tcltgggggt caagggcaoc cttctcgt cagctcgt gctctcact cctgggaagc
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 attaaatga aagggaaac laaatcaaac cactagggctt atcaaatg cttictta ttttttcg agaaatggt ttcaagggaa
 aaaaatgag ctttgattt lacatttt aaatgccag ttataltga gtaactta agacttaaa aggaacaaca aaattcctat
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 ctataggt tatataact tctgaat atgttaggt ttgaaact gcttaaaat atacttcta acatttatt cagtctatg
 ccttcttag tgcaggaacc aaataact tcaaggaatc gataaaggg aaataaact gtaagggta tggctatg ttacccgtat
 attaatct cactctgct tgggagcaaa agtcaagaaat atttaggt tggcttaaa agcttaaca cagttggt agttgaat
 ctttaatga caccataaa cacaagaaag tatagggcac aataaattg cagacata caacagcca atgaaatga
 caataaag agtaaatia aaataaact taagacagta taaggtggt tccaggggt cctagaatla accataaaa atctggaaa
 calgtgca ctttttga taaacaatg tatataat tagaatlaa tgtttgaat gtttaacat gtagggggg tggcttca
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 caggtttt acatttga aggtcttagaa gctttgctt ccaatggc tcaatggc tgaagggct cctgtaggt aaatctagc
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 ctatgttga aaaaataggg gaaaaaaag ccttggctt tttaaat tctcttt gaaaggaat gcttagtaaa caaacaca
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 atgaaggaat aaattgtaac aaatctagc gtagggcaac aggttaggaat aaatctagc tacaaggtc
 ttatgttga gatttaat acattatga aaatctgca gcaaggaat taataaaa aaattgtag gtagggcaat aaattgtag
 caaggttgg aaattatct gtaggttga aaattatct cttctgata tgggggaat tttaagaaat gttttat

545	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	<p>taaataat taaataatcat atgaaat</p> <p>MASPAGNLSA WPGWGWPAPA ALRNLTSPPA PTASPPAPS WTPSPRPGPA HPFLQPPWAV ALWSLAYGAV VAVAVLGNLV VIWIVLAHKR MRTVTNSFLV NLAFADAAMA ALNALVNFY ALHGEWYFGA NYCRCQNFPP ITAVFASIYS MTAIAVDRYM AIDPLKRL SATATRVIG SIWILAFLLA FPQCLYSKIK VMPGRTLQYV QWPEGRQHF TYHMIIVLV YCFPLLIMGI TYTIVGITLW GGEIPGDTCD KYQEQLKAKR KVVKMMIIV VTFALCWLPY HIYFILTAY QQLNRWKYIQ QVYLASFULA MSSTMYNP II YCCLNKRERA GFKRAFRWCP FIHVSSYDEL ELKATRLHPM RQSSLTYTTR MESMSVVFDS NDGDSARSSH QKRGTRDVG SNVCSRRNSK STSTTASFVS SSHMSVEEGS</p>	P	Homo sapiens
546	177168	Cysteinyll Leukotriene CYSLT1 Receptor	NM_006639	<p>atggatgaaa caggaaatct gacagatctc tctgccatc gccatgacac tatgatgac ttcgcgaac aagtgatc caactgtac tctatgatc ctgttagg cttctggc aatggcttg tgcctatgt cctataaaa acctatcaca agaatgacgc ctccaagta tacaatgaa attagcag agcagatcct ctttgttgt gcaacatgcc tctcgtgtg gctatgatg ttcacaaagg catttgctc tttgtgact tcttgccg cctcagcacc tatgcttgtt atgcaacct ctatgtagc atctcttta tgacagccat gagcttttc cgg'gcatlg caatgtttt tccagccag aacattaat tggatcaca gnaaaaaaac aggttgtgt g'gtaggtat ttgattttt g'gatttga ccagttccc attcaatg gccaaaccac aaaaagatga gnaaaaaaac accaagtgct ttgagccccc acaagacaat caaaataaaa atcatgttt ggcttgcat tatgtgatc ttgtgttg cttatcatc cctttgta ttaaatgt ctgtacaca atgatcatt tgaacttact aaaaaatca atgaaaaaa atctgcaag tcaataaaa gctataggaa tgalcatggt ogtgaocgt gctttttat gcatatcat attcaatga ccaatcacct tcaatttta cacaatgaaa ctaaaocctg tgattctgc ctgaatgc agaagtcgt ggcataacc ttgtcttgg ctgcatcaa ttgtgtctt gacctctoc tatattct ttctgggggt aactttaga aaagctgtc tacaacaga aagcattct tgcacgtg gacttatgta ccagaaaaa aggcctcttt gccagaaaaa ggaagaazaa tatgtaagt atag</p> <p>MDETGNLTYS SATCHDTIDD FRNQVYSTLY SMISVVGFFG NGFVLVYLIK TYHKKSFAQV YMINLA VADL LCVCTPLRV VYVYHKGIWL FGDFLCRLST YALYVNLVCS IFMTAMSF RCIATVFPVQ NINLVTQKKA RFVCGIWF VILTSSPFLM AKPQKDEKNN TKCFEPQDN QTKNHVVLVLH YVSLFVGFII PFVHIVCYT MIILTLLKKS MKKNLSSHKK AIGMIMVVT AFLVSFMPYH IQRTHLHFL HNETKPCDSV LRMQKSVVIT LSLAASNCCF DPLL YFFSGG NFRKRLSTFR KHSLSSTVTV PRKKASLPEK GEEICKV</p>	A	Homo sapiens
547	177168	Cysteinyll Leukotriene CYSLT1 Receptor	NP_006630.1	<p>ccacggctcc ggcggctgca cggctgcac cggcagcggct caggctccgg ctctctccc gctgcaagcag ccgcgtgoc ggccaccatg ggctcgatc cggcccccgg cccctgggca ccgctgtctc tggcccccgg cccggccccc cggaccatgc gctggggccc ccagggggaa accagaccgc gccaaaggcc cgcgaagcag aggcctcccgg gccggggccc ctcccggccc ccagctctc ggccggccgc ctgcocccgc tccggagcc gcg'gagcct gcggggggccat ggagcgcgcgc ccgcccagac ggccgctgaa cgtctggggg gcgc'ggcg gcgagcgcgc gg'ggcggggc ggggggcgcg gcttctggc agccggacc gggggctgg ccgcgctcat ggccgtgtc atcggggca cgggtgtggg caagcgcgtc g'catgctc cctcgggc gctctggc cgactcgagc ctccgaccc agaaacaact ctctgtc aaactcgca tctccgacti cctcgctggc gctctggc tccacatgta tgaacctac g'gctgagcag gccgctggag ctccggccgg ggccctcgca agctgtggct ggaggggac taoctgtgt gcaactctc tgcctcaac atcg'gctca tcaagcaga ccg'gctctc tgggacccc gagcggctc ataccggggc cagcagggg acacggcg ggcaatggcg aagatgctt tgggtgggt gctggccctc ctgctgacg gaccagccat cctgagctgg agatacctt ccggggggcag ctccatccc gagggggccact gctatggccga gttctctac</p>	P	Homo sapiens
548	177191	Histamine H3 Receptor	NM_007232		A	Homo sapiens

549	177191	Histamine H3 Receptor	NP_009163.1	<p>aactggtact tctatcatc agctttacac ctggagtct ttacgocct cctcagcgtc accttttta acctagatc atcccttgaac atccagagagc gacacccgctt caggtcttgat gggggctcagag aggcacgcagc ccccgagcc cctcccgagag ccaagccctc accaccccca cccgcttgctt gctggggcttg ctggcagagag gggcagcgggg aggcacatgc cctcccgatgc gctgcacagag tatgggggtgg gtagagggcgc cgttagggcgt gaggccgggg aggcgaacct cggggggggggc ggggggggggc gctccgtggc ttccacacac ttccagctccg gcaagctctc gagggggacct gaggagccgc gctcactcaa gaggggggctcc aagccgctggc gctcctcggc ctccgtggag aagcgcatga agatgggttc ccagagctc acctacgcct ttccgctcgc tccgggagagc aaggtgggcca agtgcgggc cgtcatcgtt agcatctttt gggctcgttg gggcccatc agcgtgcgtga tgaatcatcg gggccgctctg catggccact gcgctccctga ctactgggtac gaaacctct tctggctct gtagggccaac tgggctgtga accctgtct ctaccccttg tggcaccaca gcttccggc gggcttccac aagctgtctt gggccacagaa gctcaaaatc cagccccaca gctccctggg gctccctggg gcatctctgg aagtgagggc cccacagag ctccctcag ccacgctct ctacggccag gctcctgggg catctggccc tgcctggccc taccggctc gttcccccag ggggtggagccc cgcgtgtctt gttggccctct cttaagtgca cggcagggcac cctggccatgg aggcggcttc ctgggggggc cagagggccc cttacgtggct gggactggagag ctgggtgggc gggccctggcc cccacattct gttcagaaagc gctcggagag gttcggagaca gttcggaggg ttccagaaagc aagcacatgg gttgttccca ggtctctgc cctagatcgc ttgccctgca cgtgcacaca cctgcacaca cctgcacacc gttccctcc cgggacaaagc ccagggacact gctcttgctt cctctgtct ctggcataag cctcaggctt gggcccttca cccctctcc caccacctt ccttggccc aaaaagtga agggggccca ggaacctga agctgtctc tgccttcca ttctgggggt ttccagaaag atgaaagaa aaacatgctt gtagactga tttcgtggg algttaaic aagagagaca aaatgtctga ggaagctcag gctggagtgg caggtgtggg ctccacggc cctccctc cgtctaaaggct tccggctgag ctgtgcccag tgccttgcc caccggctt cgggctcac accagctggc gtagggccag ctggcccggc cactctgtt gctacccag gacctctggg ggtgttggg aggaagggggc cgggctgggc ccagggggtcc caagcgtgc agggggcgag cagagggaggt gcccggggcag gggccgctt gccaatgctt gtagacccgt cggcagctc ctctgctgt gcccgtgg ctggccctga aaccgtgagc tcaacaaaa gttgatttt ttacaaaaa aaaaaaaa aaaaaaaa</p>	P	Homo sapiens
550	177387	G Protein-Coupled Receptor ORF4	NM_020155	<p>agcggcgctt gcccagacc gacggggtac agccggctt cccctccac cccagagaga cagaaagac cagagccagag gagtctctc ctggggctc tgcattccc cactctggc tctggggtag gcccaggagag gagacacccc caacccctat cgggtctgc ctggagaaaa gtagctggcc ttccatggcc ctgagtgag gggctgggggc cagggctgctt gttgtccca agggcaaggg tctctctgt gaggaggggg ggcgtcagc cacaactct ttctccctga gggcccatc tccctcttg caccctgcaa ttccacccc tccgattta ttccctgtt ccagccgaca ttccctctt gctctgtcc gggattcagc cctccctcc tgaatggag agtaacctgt ctggccctgtt gcccctggc ggggtgggtgc ctggccctgc accgtctgtg accctggggg tgaacgtgc ctacacac ctgtatggccc tgcctctt ctcgctat gcccagctt gggctgggtct tctgtatggg cacaagctc tcaagtaca gacgggtgc ctggccctct gctgtcttg gggccgcttg cgtacacccc tctctctt ctactccg galactcccc</p>	A	Homo sapiens

551	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	<p>ggcgcaacgg cctggggccc ttgccttct ggcttctcta ctgctgcccc gtcgtgcgc agttcttacc ctggagcgt atgaaacctt acitlgccca ggtggtgttc aaggccaagg tgaagcgtcg gccaagatg agccagagct tgcctgctgt ccgagggggc ttgtggggg cctgcgtgct ctttctgtg gtagacgtgc tgtgtgctgt gctctccat cggcgcgac acccttgggc cctgctgt ttgcgcgtcc tggtagcgga ctccgttc gtcactgcg cgtctctct tgcgtgcgc cttgcgtcgt tgcgacggg ggcgccacca ctgacacta ccgggaggcc aagtaggggc tgcagactg atgccaagt gcttttggg tctctggga gcggttcta ggggttagg</p>	P	Homo sapiens
552	180956	Lysophosphatidic Acid Receptor Edg7	NM_012152	<p>MESNLSGLVP AAGLVPALPP AVTLGLTAAY TTL YALLFFS VYAQLWL VLL YGHRKLSYQT VFALCLLWA ALRTLFSFY FRDTPRANRL GPLPFWLLYC CPVCLQFFTL TLMNLYFAQV VFKAKVKRRP EMSRGLLA VR GAFVGASLLF LLVNVLC AVL SHRRAPWAL LLVRVLVSDS LFVICALSLA ACLCLVASGR PPLASTWRPR</p> <p>ctctttaa ttctttta ggatgtcac ttcttcca caatgaatga gtagactat gacaagcaca tggactttt itaalaatgg agcaacactg atactgtcga tgaatgaga ggaacaaagc ttgtgatgt ttgtgtgtt gggacgttt tctgcctgt tatttttt tctaatttc tggatcgc ggcagatg aaaaacagaa aatttcatt ccccttac taccgttgg ctaatttagc tgcgtccgat ttcttgcgt gaattgcta tgaattcgt algttaaca caggccacgt ttcaaaaact ttagactgt accgttgggt tctccgtcag gggcttctgg acagtgtct gactgtccc ctaccaact tgcgtgtat cgcctggag aggcacatgt caatcagag gatcggggc calagcaacc tgaccaaaaa gagggtgaca ctgtcattt tgcgtgtc ggcacatgcc attttatgg ggcgtgtccc cacatgggc tggatggc tctgcaacat ctctgcctgc tctccctgg ccccattha cagcagggagt taccttgtt tctggacagt gtcaaacctc alggccttcc tcatcaggt tgggtgtac ctgcggatc acgtgtact caagaggaaa accaactgt tgcctcgca tacaagtggg tccalcacc ggcgggaggac accatgaag ctatgaaga cgtgtgagac tgccttaggg gcttttgg tatcgtggac cccggcctgc ggtgtctgc tctcgtacgg cctgaactgc aggcaggtg gctgtcagca tgtgaagaag tggctcgtc tgcactctc gtcgtgaac cactatctca ctctacaag gacgagga tgaatggcac calgaagaag atgacttct gcttctca gtagaagcgt cctctgcac cctctcaca gtcctagca gtagtagcac aggcagccag tcatagagg atagtattag ccaagggtgca gtcgtcaata aagcacttc ctactctg gtagctct ggcaccaca ggtgatgact gcttagg</p>	A	Homo sapiens
553	180956	Lysophosphatidic Acid Receptor Edg7	NP_036284.1	<p>MNECHYDKHM DFFVNRNTD TVDDWTGTL VVLCVGTFF CLFIFFSNL VIAAVIKNRK FHFPFYLLA NLAADFFAG IAYVFLMNT GPVSKTLTVN RWFLRQGLD SSLTASLTNL LVIAVERHMS IMRMRVHSNL TKRVTLLIL LVWAIAFMG AVPTLGNCL CNISACSSLA PYSRSLVF WTVSNLMAFL IMVVVYLRV VYVYKRKTNL SPHTSGSISR RPTPKLMKT VMTVLGAFV CWTPGLVLL LDGLNCRQCG VQHVKRWFLL LALLNSVNP IYSYKDEDM YGTMKKMICC FSQENPERP SRPSTVLSR SDTGSQYIED SISQAVCNK STS</p> <p>atgggcccc gcaaggcgt gctggcgggt ctctgtaga tggatggc cgtggcgtc ctatcaacg cactgtgtct gcttgtgc gctacagcg ctgagctcgc cactgagcg tcaaggctcc tctgtgtga tctgtctc ggcacctgc tgcggcgcc gctggacalg cctctacgc tgcctgggt galgcgcgg cggacacct cggcgcccc gcatggccaa gtcattggct tctggacac ctctctggcg tccaacggc cgtctgagct ggcggcgctc agcgcagacc agtggcctggc agtggcctc ocatgcgt acgocggacg cctgcgaocg cgtatgccc gcttgcgt gggcctgtgccc tggggacagt cgtggcct ctacggcgt gcatgtgct gctgtgtct tggctacagc gctgtcctc gctcgttct gctgcgctc cgcggcagc ctgagctcc ggccttgcga gctctaccc ccacgttcca tgcctgtggg ttctgtgtc cgtgtgtc gctctgctc acctgtcc aggtgtcacgg gggggcacgc agacactgc agcgcagcga caccgtcac atgaaaggcg gctctgctc acctgtcc aggtgtcacgg gggggcacgc agacactgc agcgcagcga caccgtcac atgaaaggcg</p>	P	Homo sapiens
554	189873	G Protein-Coupled Receptor GPR78	AF411107	<p>atgggcccc gcaaggcgt gctggcgggt ctctgtaga tggatggc cgtggcgtc ctatcaacg cactgtgtct gcttgtgc gctacagcg ctgagctcgc cactgagcg tcaaggctcc tctgtgtga tctgtctc ggcacctgc tgcggcgcc gctggacalg cctctacgc tgcctgggt galgcgcgg cggacacct cggcgcccc gcatggccaa gtcattggct tctggacac ctctctggcg tccaacggc cgtctgagct ggcggcgctc agcgcagacc agtggcctggc agtggcctc ocatgcgt acgocggacg cctgcgaocg cgtatgccc gcttgcgt gggcctgtgccc tggggacagt cgtggcct ctacggcgt gcatgtgct gctgtgtct tggctacagc gctgtcctc gctcgttct gctgcgctc cgcggcagc ctgagctcc ggccttgcga gctctaccc ccacgttcca tgcctgtggg ttctgtgtc cgtgtgtc gctctgctc acctgtcc aggtgtcacgg gggggcacgc agacactgc agcgcagcga caccgtcac atgaaaggcg</p>	A	Homo sapiens

555	189873	G Protein- Coupled Receptor GPR78	CAC3404.1.1	<p>icgocgigt cgcgcacgtg caocccagtg tgcggcacgg cigtccatc cagcagaagc ggcgcgcgcca cgcgcacacc aggaaagattg gcatigtat tgcgaacctt ctaictgt tggcccgta tgcaltgacc aggcggcgagg agtcgtgoc cttgcacac gtagacggccc agtggggcat cctagcaag tgcctgacct acagcaagc ggtggccgac ccgttcacgt actcttgt ccgcggggc tccgcgaag tccggccgg calggcgac cggcgtgcga agagaaacccc ggcgcagca tccaccatg acagctctt ggcgtggcc ggcgtggc accagctgt gtagagaac ccgcgcgcag cgtccacca caacggctt gggacacag agaatgac cgcctgacg cagacact ga MGPGEALLAG LLVMVLA VAL LSNALVLCC AYSALRTRA SGVLLVNL SL GHLLAALDM PFTLLGVMRG RTPSAPGACQ VIGFLDTFLA SNAALSVAAL SADQWLAVGF PLRYAGRLRP RYAGLLGCA WQSLAFSGA ALGCSWLGY S SAFASCSRL PPEPRPFA AFTATLHVG FVLPLAVLCL TSLQVHRVAR RHCQRM DTVT MKALALLADL HPSVRQRLI QKRRRRHRAT RKIGIAIATF LICFAPYVMT RLAEVPFVT VNAQWGILSK CLTYSKAVAD PFTYSLLRP FRQLAGMVH RLLKRTPRPA STHDSSLDVA GMVHQLLKRT PRPASTHNGS VDTENDSCLQ QTH</p>	P	Homo sapiens
556	189874	Neuromedin U Receptor 2	NM_020167	<p>atggaaaac ttcaaatg ttcctggac taccagcaga aactagaaga tccattccag aaacacctga acagaccga ggagtatctg gcttctctt ggcgaacctg gcgcagccac ttctctcc ccgttgtgt gggtatgtg ccaattttg tgggggggt catggcaat gctctgtgt gcttggtgat tctgcagcac caggtatga agacggccac caactactac cttcagoc tggcgctc tgacctctg gcttgtcc ttggatgoc cctggaggtc talgatgt ggcgcaacta cctcttgg ttcggggccc tgggtctga ctcaagacg gctcttgg agaccgtg cttcgctcc atctcagca tcaocacgt cagctggag cgtctgtgg ccatctaca ccgttccg gccaaatgc agagacaccc ggcgcggggc ctacgatcc tcggcatgt cggggctc tccgtctt tctccctg caacacagc atocattga tcaagtcca ctactccc aatggctcc ttgcccagg ttggccacc tgcagggtca tcaagcccat gtagctatc aatitca tccaggtcac cctctcta ttctaccc tcccatgac tgcacagt gctctact acctatgg actcagac agaaagaca aatcttga ggcagatga gggaatgcaa atattcaag acctgcaaga aatcagca acaagatgt gtttgtg gtttgtgt ttgtatctg ttggccccc ttccatgt accgacttt ctacgtt ggaggaggt ggagtgaac cctgctgt gtttcaacc tctccatgt gggtcaggt gtcttctt acctgagtc agctgcaac ccatlatc ataacctat gcttcggc ttccagcag caticcagaa tgtatctt tcttccaa aacagtggca ctccagcat gaocacagt tgcacctgc ccagcggaaac atctctga cagaatgcca cttggggag ctgaccgaag alatagtcc caattcca tgcagctat ccatgcaaa ctctacatc ccaacagccc tctctga acagatgca agaaacact atcaagctt ccacttaac aaaaactga</p>	A	Homo sapiens
557	189874	Neuromedin U Receptor 2	NP_064552.1	<p>MEKLQNASWI YQKLEDPPFQ KHLNSTEYL AFLCGPRRSH FFLPVSVVYV PIFVVGIGN VL VCLVILQH QAMKTPITNY LFSLAVSDLL VLLGMPLEV YEMWRNYPFL FGPVGCYFKT ALFETVCFAS ILSITVSVE RYVAILHPFR AKLQSTRRA LRILGIVWGF SVLFLSPLNTS IHGKIFHYFP NGSLVPGSAT CTVIKPMWY NFIIQVTSFL FYLLPMTVIS VLYLMALRL KKDKSLEADE GNANIQRPCR KSVNKMFLVL VLVEAICWAP FHDRLFFSF VEEWSESLAA VFNLVHVVSF VFFYLSAVN PIYNLLSRR FQAAFQNVIS SFHKQWHSQH DPQLPPAQRN IFLTECHFEV LTEDIGPQFP CQSSMHNHSL PTALSSEQMS RTNYQSFHN KT</p>	P	Homo sapiens
558	189884	G Protein- Coupled Receptor	LG94108	<p>atgtggcag cgtcccttg agacttaac tccagcaga tgaatgtc cttgtcac cttcacttg ccggagggtta cctgcccct A gattccagg actggagaac catatccg gctctctgg tggctgtctg cctggaggc ttctggaga acctgtgtgt</p>	A	Homo sapiens

Ls189884

559 189884 G Protein- ENSMPRT1140 MLAAAFADSN SSSMNVSAFH LHFAGGYLPS DSQDWRITIP ALLVAVCLVG Homo
Coupled Receptor 67 FVGNLCVIGI LLHNAWKGP SMHSLJLNL SLADLSLLF SAPIRATAYS sapiens
Ls189884 KSVWDLGWVF CKSSDWFIHT CMAAKSLTIV VVAKVCFMYA SDPAKQVSIH
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DQETGEGV

560 189895 G Protein- NM_031936 A Homo
Coupled Receptor GPR61 sapiens

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MESSPIPQSS GNSSTLGRVP QTPGPSTASG VPEVGLRDVA SESVALFFML

561 189895 G Protein- NP_114142.1 P Homo

565	189901	G Protein- Coupled Receptor Ls189901 (HEOAD54)	CAC38933.1	<p>ggccaccgg gcagcggcc acgggctcagc acgtggggg gctggcacc cttcaggtag cgggtgagtg cgatggctgt gagggaagaca acgcggccg tgggggtggf ggacagcatg aagaggttga ctttgcaggc agcagcccca aagcccaagg tctatggag gaggtagtag tccacggga ggagcaggtt gctgacagag aggaagtcag cggccaccag gctgaccagg aacaccgtgt tggaggtcca ggcccgctg tggatgcaga agatgaagag ggccaaactg ttcccacca ggccaggac aaactcagg gccaggatg gtgcaggaa ggacacacc agcgagggaag aggtggggg gcaggggccct ccaggagcc cccaccagt ggtaaggc</p> <p>MELHNLSSPS PSLSSSVLPP SFSPSPSSAP SAFTTVGGSS GGPCHPTSSS LVSAFLAPIL P ALEFVLGLVG NSLALFICI HTRPWTSTNTV FLVSLVAADF LLISNPLPLRV DYLLHETWR FGAAACKVNLFMLSTNRTAS VVFLTAJALN RYLKVVPQPHH VLSRASVGAA ARVAGGLWVG ILLNGHLL STFGSPSCLS YRVGTKPSAS LRWHQALYLL EFFLPLALJL FAIVSIGLTI RNRGLGQAG PQRAMRVLAM VVAVYTICFL PSIIFGMASM VAFWLSACRS LDLCQLFHG SLAFTYLNSV LDPVLYCFSS PNFLHQSRL LGLTRGRQGP VSDSSYQPS RQWRYREASR KAEAIKLV QGEVSLEKEG SSQK</p> <p>ggthtgggt taactcaga ggaattgtg aacaactacg acatgcggg gatcaggca tggaaagcaa ctggcaaaa A ctggctggca gcagaggctg cccgggaaa gtaiaacct tccattttt algggatga gttgtgtg ggagtcctg gaaataccat tgtgtttac ggclacatct tctctgaa gaactggac agcaglaala ttatctct taacctctt gctctgact tagctttct gtgcacctc cccatgcta taaggagta tgcctalgga aactggalat atggagacgt gctctgcata agcaacogat atgtgttca tggcaacctc talaccaga tctcttct cactttatc agcatagatc galacttgat aattaagiat cctttccgag aacacctct gcaaaagaaa gagtttgcta tttaactc ctgggccatt tgggttttag taacctlaga gttactacc atacttccc ttalaatcc tgtataact gacaalgca ccaactgttaa tgaatttga agttctggag acccaacta caactcatt tacacalgt gtctaacat gtgggggtc ctatctc tttttgat gttttctt tanaacaga tgcctctt ctaaaagcag aggaataggc aggtgtctac tgcctgccc ctggaaagc ctctcaact ggctcaltg gcagtggttaa tctctctg gcttttiaca ccciatcag tcalgcgaa tgtgaggatc gcttcagcc tggggagtg gaagcagiat cagtgctatc aggtcgtcat caactcctt tacttga cacggcctt ggctttctg aacagtga tcaacctgt ctctattt ctttgggag atcactcag ggacalgtcgt atgaatcaac tgaacacaa ctcaaatcc ctacatct ttacagatg ggctcaltga ctctactt catcagaga aaagtggagg gcttggaaa cagatgtc tacagatga tctglaagcc agttacagt tgccttaact catagacalc aatcagagag tctcacagat ttaaacttga tcaaaagaca agttgtacc agatgtg aagaagatgg gacgacaaga atgtactgtt tcttctct aagaatgaa aggagtga ctgcctatg ttgggcatg taactcaaa atactagga gtaaggtt ttcaatca gtcgcaaaat ggagagata. taaaagcaaca agttgtc altgatcac tggatcagatt gtaaaaaa aaaaaaaa</p> <p>MAWNA TKNW LAEEAALEKY YLSIFYGIEF VVGLGNTIV VYGYIFSLKN P WNSSNYLFN LSVSDLFLC TLPMLIRSYA NGNWYGDVL CINSRYVLHA NLYTSILFLT FISIDRYLII KYPFREHLQ KKEFAILISL AIWVLVLEL LPILPLNPV ITDNGTTCND FASSGDPNYN LIYSMCLTLL GFLLPFVMC FFYKIALFL KQRNRQVATA LPLEKPLNLV IMAVVFISVL FTPYHVMNRV RIASRLGSWK QYQCTQVVIN SFYIVTRPLA FLNSVINPVF YFLLDHFRD MLMNQLRHNF KSLTSFRWA HELLSFREK</p> <p>tggagccatg ctccctgggc tctccgggc ggcgccgcgc gctggccctc gcttggagga aaagagactct tgggaagat A ggagactcat gtccatttc cagaatgt ttocagccc atcaatggga cctgatactg ctgtctgtg tgaatgtg tgaagaaact ctgcatctct gcttgcactt tcaatctac tgaacctatg gctctcggc cagttgtgac tgcgttccat accgggacat ccaacaaac</p>	Homo sapiens
566	189904	Purinergic Receptor P2U2 (GPR91)	NM_033050	<p>ggthtgggt taactcaga ggaattgtg aacaactacg acatgcggg gatcaggca tggaaagcaa ctggcaaaa A ctggctggca gcagaggctg cccgggaaa gtaiaacct tccattttt algggatga gttgtgtg ggagtcctg gaaataccat tgtgtttac ggclacatct tctctgaa gaactggac agcaglaala ttatctct taacctctt gctctgact tagctttct gtgcacctc cccatgcta taaggagta tgcctalgga aactggalat atggagacgt gctctgcata agcaacogat atgtgttca tggcaacctc talaccaga tctcttct cactttatc agcatagatc galacttgat aattaagiat cctttccgag aacacctct gcaaaagaaa gagtttgcta tttaactc ctgggccatt tgggttttag taacctlaga gttactacc atacttccc ttalaatcc tgtataact gacaalgca ccaactgttaa tgaatttga agttctggag acccaacta caactcatt tacacalgt gtctaacat gtgggggtc ctatctc tttttgat gttttctt tanaacaga tgcctctt ctaaaagcag aggaataggc aggtgtctac tgcctgccc ctggaaagc ctctcaact ggctcaltg gcagtggttaa tctctctg gcttttiaca ccciatcag tcalgcgaa tgtgaggatc gcttcagcc tggggagtg gaagcagiat cagtgctatc aggtcgtcat caactcctt tacttga cacggcctt ggctttctg aacagtga tcaacctgt ctctattt ctttgggag atcactcag ggacalgtcgt atgaatcaac tgaacacaa ctcaaatcc ctacatct ttacagatg ggctcaltga ctctactt catcagaga aaagtggagg gcttggaaa cagatgtc tacagatga tctglaagcc agttacagt tgccttaact catagacalc aatcagagag tctcacagat ttaaacttga tcaaaagaca agttgtacc agatgtg aagaagatgg gacgacaaga atgtactgtt tcttctct aagaatgaa aggagtga ctgcctatg ttgggcatg taactcaaa atactagga gtaaggtt ttcaatca gtcgcaaaat ggagagata. taaaagcaaca agttgtc altgatcac tggatcagatt gtaaaaaa aaaaaaaa</p> <p>MAWNA TKNW LAEEAALEKY YLSIFYGIEF VVGLGNTIV VYGYIFSLKN P WNSSNYLFN LSVSDLFLC TLPMLIRSYA NGNWYGDVL CINSRYVLHA NLYTSILFLT FISIDRYLII KYPFREHLQ KKEFAILISL AIWVLVLEL LPILPLNPV ITDNGTTCND FASSGDPNYN LIYSMCLTLL GFLLPFVMC FFYKIALFL KQRNRQVATA LPLEKPLNLV IMAVVFISVL FTPYHVMNRV RIASRLGSWK QYQCTQVVIN SFYIVTRPLA FLNSVINPVF YFLLDHFRD MLMNQLRHNF KSLTSFRWA HELLSFREK</p> <p>tggagccatg ctccctgggc tctccgggc ggcgccgcgc gctggccctc gcttggagga aaagagactct tgggaagat A ggagactcat gtccatttc cagaatgt ttocagccc atcaatggga cctgatactg ctgtctgtg tgaatgtg tgaagaaact ctgcatctct gcttgcactt tcaatctac tgaacctatg gctctcggc cagttgtgac tgcgttccat accgggacat ccaacaaac</p>	Homo sapiens
567	189904	Purinergic Receptor P2U2 (GPR91)	NP_149039.1	<p>ggthtgggt taactcaga ggaattgtg aacaactacg acatgcggg gatcaggca tggaaagcaa ctggcaaaa A ctggctggca gcagaggctg cccgggaaa gtaiaacct tccattttt algggatga gttgtgtg ggagtcctg gaaataccat tgtgtttac ggclacatct tctctgaa gaactggac agcaglaala ttatctct taacctctt gctctgact tagctttct gtgcacctc cccatgcta taaggagta tgcctalgga aactggalat atggagacgt gctctgcata agcaacogat atgtgttca tggcaacctc talaccaga tctcttct cactttatc agcatagatc galacttgat aattaagiat cctttccgag aacacctct gcaaaagaaa gagtttgcta tttaactc ctgggccatt tgggttttag taacctlaga gttactacc atacttccc ttalaatcc tgtataact gacaalgca ccaactgttaa tgaatttga agttctggag acccaacta caactcatt tacacalgt gtctaacat gtgggggtc ctatctc tttttgat gttttctt tanaacaga tgcctctt ctaaaagcag aggaataggc aggtgtctac tgcctgccc ctggaaagc ctctcaact ggctcaltg gcagtggttaa tctctctg gcttttiaca ccciatcag tcalgcgaa tgtgaggatc gcttcagcc tggggagtg gaagcagiat cagtgctatc aggtcgtcat caactcctt tacttga cacggcctt ggctttctg aacagtga tcaacctgt ctctattt ctttgggag atcactcag ggacalgtcgt atgaatcaac tgaacacaa ctcaaatcc ctacatct ttacagatg ggctcaltga ctctactt catcagaga aaagtggagg gcttggaaa cagatgtc tacagatga tctglaagcc agttacagt tgccttaact catagacalc aatcagagag tctcacagat ttaaacttga tcaaaagaca agttgtacc agatgtg aagaagatgg gacgacaaga atgtactgtt tcttctct aagaatgaa aggagtga ctgcctatg ttgggcatg taactcaaa atactagga gtaaggtt ttcaatca gtcgcaaaat ggagagata. taaaagcaaca agttgtc altgatcac tggatcagatt gtaaaaaa aaaaaaaa</p> <p>MAWNA TKNW LAEEAALEKY YLSIFYGIEF VVGLGNTIV VYGYIFSLKN P WNSSNYLFN LSVSDLFLC TLPMLIRSYA NGNWYGDVL CINSRYVLHA NLYTSILFLT FISIDRYLII KYPFREHLQ KKEFAILISL AIWVLVLEL LPILPLNPV ITDNGTTCND FASSGDPNYN LIYSMCLTLL GFLLPFVMC FFYKIALFL KQRNRQVATA LPLEKPLNLV IMAVVFISVL FTPYHVMNRV RIASRLGSWK QYQCTQVVIN SFYIVTRPLA FLNSVINPVF YFLLDHFRD MLMNQLRHNF KSLTSFRWA HELLSFREK</p> <p>tggagccatg ctccctgggc tctccgggc ggcgccgcgc gctggccctc gcttggagga aaagagactct tgggaagat A ggagactcat gtccatttc cagaatgt ttocagccc atcaatggga cctgatactg ctgtctgtg tgaatgtg tgaagaaact ctgcatctct gcttgcactt tcaatctac tgaacctatg gctctcggc cagttgtgac tgcgttccat accgggacat ccaacaaac</p>	Homo sapiens
568	189920	G Protein- Coupled Receptor GPR63 (PSP24)	NM_030784	<p>ggthtgggt taactcaga ggaattgtg aacaactacg acatgcggg gatcaggca tggaaagcaa ctggcaaaa A ctggctggca gcagaggctg cccgggaaa gtaiaacct tccattttt algggatga gttgtgtg ggagtcctg gaaataccat tgtgtttac ggclacatct tctctgaa gaactggac agcaglaala ttatctct taacctctt gctctgact tagctttct gtgcacctc cccatgcta taaggagta tgcctalgga aactggalat atggagacgt gctctgcata agcaacogat atgtgttca tggcaacctc talaccaga tctcttct cactttatc agcatagatc galacttgat aattaagiat cctttccgag aacacctct gcaaaagaaa gagtttgcta tttaactc ctgggccatt tgggttttag taacctlaga gttactacc atacttccc ttalaatcc tgtataact gacaalgca ccaactgttaa tgaatttga agttctggag acccaacta caactcatt tacacalgt gtctaacat gtgggggtc ctatctc tttttgat gttttctt tanaacaga tgcctctt ctaaaagcag aggaataggc aggtgtctac tgcctgccc ctggaaagc ctctcaact ggctcaltg gcagtggttaa tctctctg gcttttiaca ccciatcag tcalgcgaa tgtgaggatc gcttcagcc tggggagtg gaagcagiat cagtgctatc aggtcgtcat caactcctt tacttga cacggcctt ggctttctg aacagtga tcaacctgt ctctattt ctttgggag atcactcag ggacalgtcgt atgaatcaac tgaacacaa ctcaaatcc ctacatct ttacagatg ggctcaltga ctctactt catcagaga aaagtggagg gcttggaaa cagatgtc tacagatga tctglaagcc agttacagt tgccttaact catagacalc aatcagagag tctcacagat ttaaacttga tcaaaagaca agttgtacc agatgtg aagaagatgg gacgacaaga atgtactgtt tcttctct aagaatgaa aggagtga ctgcctatg ttgggcatg taactcaaa atactagga gtaaggtt ttcaatca gtcgcaaaat ggagagata. taaaagcaaca agttgtc altgatcac tggatcagatt gtaaaaaa aaaaaaaa</p> <p>MAWNA TKNW LAEEAALEKY YLSIFYGIEF VVGLGNTIV VYGYIFSLKN P WNSSNYLFN LSVSDLFLC TLPMLIRSYA NGNWYGDVL CINSRYVLHA NLYTSILFLT FISIDRYLII KYPFREHLQ KKEFAILISL AIWVLVLEL LPILPLNPV ITDNGTTCND FASSGDPNYN LIYSMCLTLL GFLLPFVMC FFYKIALFL KQRNRQVATA LPLEKPLNLV IMAVVFISVL FTPYHVMNRV RIASRLGSWK QYQCTQVVIN SFYIVTRPLA FLNSVINPVF YFLLDHFRD MLMNQLRHNF KSLTSFRWA HELLSFREK</p> <p>tggagccatg ctccctgggc tctccgggc ggcgccgcgc gctggccctc gcttggagga aaagagactct tgggaagat A ggagactcat gtccatttc cagaatgt ttocagccc atcaatggga cctgatactg ctgtctgtg tgaatgtg tgaagaaact ctgcatctct gcttgcactt tcaatctac tgaacctatg gctctcggc cagttgtgac tgcgttccat accgggacat ccaacaaac</p>	Homo sapiens

569	189920	G Protein- Coupled Receptor GPR63 (PSP24 beta)	NP_110411.1	<p>atttgctg tgagaaaca oclacatgaa laltacacac ccaccacat tccagcatcc tgaocctcagt tcaatgctta gatatagttt tgaacaatg gctccacatg gttgagtic ctgacccgag aatagtaacag ctgagccac aacaccagca gcaatlaaga gocataact gctctctcag atcacccttt ctgctataat gatatcatt ctgtttgtt ctctttctg gaaatggtt gtttgccica tgcttiacca aaaaagctgcc agagggctg ctgctataat cctctgcc agccctagct tgcagacat gttgctgca gctcgaaca tgcccttgc cctggtaact atcttacta cccgatggat ttgtgggaaa ttctctctga gggtaactgc tatgttttct tggtaattg tgataagag agtaaccatc ctgctatca ttgcataga taggttctt attatgctt ctttagccg taggaaaccc cgaacctgcaag ccatataag ctgaagttct gattgcatt tcltgggcaa cctcttltg ttgacttlt ctttagccg taggaaaccc cgaacctgcaag ataactccc gagctccca gttgtgtt gggtacaaa ccaatccagg ctaccaggct tatgtgatt tgaattct catcttct ttcalacct tccgtgtaact actgtacta ttatgggca taccacac cctcggcac aatgcttga ggtatccatag ctacocctgaa ggatlatgoc tcaagocaggc cagcaaatg ggtctcatga gctgcagag acctttccag atgagcatg acatgggct taaacacagt gcttccaca ctatttgc tctcttgc gcttcatg tctgctggc ccaatcac acttacagoc ttgtggcaac attcaglaag cactttact atcagcaca ctitttgc attagcaact gctcggaca tgaactctaa gctctcaag ttgtgccg agctccctg gctgatctac tactggagga ttagaat ccatgact tgcctggaca tgaactctaa gctctcaag ttgtgccg agctccctg tcacaaaag cgaagatc gctctcag tgcctatg ttgtgggaa atcagacgtt ggttgaata ttggaactgg ctgacattt gggatgct tctcttact tgcattgaa ttcttct catagocct cactttat ttittala gggtttgt atglatgt gtagcaggt taaagaaaga agttaata tgttctgt accaagaata aataataggga agtgatlac aaatlaac tccagggct aatagaatc ccaatttgg ggtgagga ctitttgc gtttgggt ttctctga ttgatttgt ttcatag ggatcaga ttgtctta ttgagctgc agtaactg aattgtagt gttctgtg ctgctatg agcttatt gatttaca ggacttt ttctggaa gacactgc ctttacat cacatggag cc MVFSAVLTAF HTGTSNTTFV VYENTYMNIT LPPFQHPDL SPLLRYSFET MAPTGLSSLT VNSTAVPTTP AAFKSLNPL QITLSAIME ILFVSFLGNL VVCLMVYQKA AMRSAINLL ASLAFADMLL AVLNMFPALV TLTTRWIFG KFFCRVSAMF FWLFVIEGVA ILLISIDRF LIIVQRQDKL NPYRAKVLIA VSWATSFCA FPLAVGNPDL QIPSRAPQCV FGTTNPGYQ AYVILISLIS FFIPFLVILY SFGILNLT HNALRIHSYP EGICLSQASK LGLMSLQRPF QMSIDMGFKT RAFTTILF AVFVVCWAPF TTYSLVATFS KHFYQHNF EISTWLLWLC YLKSALNPLI YYWRUKKFHD ACLDMMPKSF KFLPQLPGHT KRRRPSAVY VCGEHRTVV ttgttgcgt cactctga agcttaaaa acaattgag aattggctt caagatagac ctacatgca caccatgt gaatalaca actcggaaact tggctctcag cgtatcacc cgttaccag ggaacaaatg aatttcaat tttagcatg gtttccaa gcaataagaa tctatttcc agatggatt tgaagtgga caagtggaat cactggcatc tgaatttg cctccaaact tacttgagaa tttagtcca gaagatctg taitagtag aagagcagac ttacttct tcaacaaac tggactttc caggatgag gaccccaag aaaaactta gtgagttatg tgaaggtg cagttatgga aacattacta tccagaatc gaaggaatc gttcaatlaa aaatcaaca tacaagaact caggaagtgc atatccat ctgtgcttc tgggaatcga acaaaaaca aagtttggga ggaaggaaaca cgtcaggatg ttgtcacac agagattcag atgcagtgga gacagtgc ctgtgaacc acttcaaca cttggaggt ctgaggaac ttccaagaag tgcctcacag ttatgagcaa gaaacacaa agtctcact ttcatcgt atattgggtg tggaaatct gctatttt cagcagaac tctctgaca tatgttct ttgagaatt gcaagggat tatoccca aaatctgat gaaactgagc acagccctgc tgttctgaa tctcttcc ctctagag gctggatcac ctcttcaat gtagtgagc ttgtcagc tgtgcaagc ctgttgatt tctcttct ggaacattt acctgagag ggtgagagc aattccatg tcatgctc tagtanaagt atttaacat tacttcgcc galacattt aaaaatcgc atcattggct ggggtttgccc tgcctagtg gttcagtg tctagcagc cagaacaac aalgaagtct atggaaaga aagttaggg aagaanaag gtagaatt ctgttggtt caagatccag tcalattta tggacctgt</p>	P	Homo sapiens
570	189945	G Protein- Coupled Receptor Dj287g14.2	AK027843	<p>ttgttgcgt cactctga agcttaaaa acaattgag aattggctt caagatagac ctacatgca caccatgt gaatalaca actcggaaact tggctctcag cgtatcacc cgttaccag ggaacaaatg aatttcaat tttagcatg gtttccaa gcaataagaa tctatttcc agatggatt tgaagtgga caagtggaat cactggcatc tgaatttg cctccaaact tacttgagaa tttagtcca gaagatctg taitagtag aagagcagac ttacttct tcaacaaac tggactttc caggatgag gaccccaag aaaaactta gtgagttatg tgaaggtg cagttatgga aacattacta tccagaatc gaaggaatc gttcaatlaa aaatcaaca tacaagaact caggaagtgc atatccat ctgtgcttc tgggaatcga acaaaaaca aagtttggga ggaaggaaaca cgtcaggatg ttgtcacac agagattcag atgcagtgga gacagtgc ctgtgaacc acttcaaca cttggaggt ctgaggaac ttccaagaag tgcctcacag ttatgagcaa gaaacacaa agtctcact ttcatcgt atattgggtg tggaaatct gctatttt cagcagaac tctctgaca tatgttct ttgagaatt gcaagggat tatoccca aaatctgat gaaactgagc acagccctgc tgttctgaa tctcttcc ctctagag gctggatcac ctcttcaat gtagtgagc ttgtcagc tgtgcaagc ctgttgatt tctcttct ggaacattt acctgagag ggtgagagc aattccatg tcatgctc tagtanaagt atttaacat tacttcgcc galacattt aaaaatcgc atcattggct ggggtttgccc tgcctagtg gttcagtg tctagcagc cagaacaac aalgaagtct atggaaaga aagttaggg aagaanaag gtagaatt ctgttggtt caagatccag tcalattta tggacctgt</p>	A	Homo sapiens

571	189945	G Protein-Coupled Receptor Dj287g14.2	BAB55406	<p>gctgggtaatt ttggagatcat gtttttttcg aacattggca tgttcatgtt ggtaaatggg cagatctgtg ggagggaaalg caagagaagc aacgggaccc tgaagaaga agtgaaga agcttgcga gtaggttag ctggacctt ctgttgggca tgaatgggg ttltgcatc ttggctggg gacocnaaa tatoccttc atgtacctt tctcatct caatcatia caaggcttat ttatattcat ctccactgt gctatgaagg agaatgtca gaaacagtg cggcgccatc tctgtctggg tagattctgg ttgacagala actcagaltg gagtgaaga gctaccaata tcatcaaga aagtctgtat aatctaggaa aatcttggc ttcaagctcc attgttca actcaacta tctuatcc aaatcaaat ccagctctac cacttattt aaaggaata gacacaga taatgtctcc tatggacat ccttcaaaa aagtggatca ctgagacagt gcttccatgg acaagctctt gcaaaactg gccatgtcgg tggagatca aacatcaatc atocctgtcc atcaggatcat tgaagaagg aagggttat gcaatgtc ttcagacaac tctataaaa atattatcat gtcagaccc ttagocaca gcacaaagt ttatgtct ttagaanaag aaatcaatct gcagaatagt gaagattgg aagcagtgta aac'tgcaact agtgaatga atgtgtat acctaggtaa ctgcatat aaagggaalg latrtgtta agaaaggcttt tggaaatc agaattttc tttaatat atttctcca tggagagt gtcacta aaactcagt actgagatga acatgactca gtagccacag aagctatgat ttgtaaaa tataatga tcaagataat calaatgca gggagacatt caaatagag acaaggaga agcaatgtc aggaagacc tagatagag tcaatttact ccaactaat gttataltc gatatoca ttittcgtat ctttcttc aacaataac tgtcttct ttggagact tttagacatt cctaagcac aaataaagc ctgtatttc ccatgtaga gtttgtcc aaaggaaatg aagtgaaga tatgggttag tcaataat caaataat tatgaagagc tgggtctgca atagctatg taaaactac ttgtgtgca gtctcttgg tatagtatat aaagcccg gtaggtctgg caagatagat ggtgttat ttatggatca ggtctgtgca tacaacctt gcalactat atgcagctta cctaacttc agactatct ggaataatgt tgcgtgctaa tgaatgtata ggaagocaca ttgaatgt tctuaatga tggatccat gcaatctt agaaatcgt ctgagtgat gctgtgttt ttacattg ctctgggta tctgggaagt atcaggtctt gggagggcac agcattaaat gataagaaaa ggaagacattc tggcaagcc aatctgtca aaggcaagt ccagaacct gaaactagag gcccttct ctgcacgaaa aacaggtagt ttgcagctg agatatgga gtagtttag gctacagc aacocaggg accctcac ttltgtgag ctcaatcag gaagctatt gccgtgtcc agcagatgt gtagataga gtagtggttt tttaatc tggatcatc tgcacatoc tcttgggaga caagacatt accagctg gctttcacgg gggaggggtg tattcagt mdffesgqvdp lasvllppnl lenlspedsv lvrraqtfff nktglfQDVG P</p>	Homo sapiens
572	190026	G Protein-Coupled Receptor JEG18	NM_032553	<p>STYLTSSKSKS SSTTYFKRNS HTDNVSYEHS FNKSGSLRQC FHGQVLVKTG PC caccatagg caaagatagt ttcttagag agaatatgc ctgcaata caggtatcc aggcacagatg gagaanaac agatttga tactttat ttgcagtgac atacacgtc attctgtc caggtcat agggaaata ttggccctgt gggattcta tggttatg aaagaacaaa aacgagctgt gatattatg ataaactag ccattgtgta ctatacaa gttcttct tggcacatg gattctac tactgaatc atgactggcc atttgggctt ggtctgtgca tgttctgt ctactgaag tatgtcaaca tgtatgcaag catclactc ttgtctgca tcaagtgtcg acgaattgg ttctcatgt accctttg ctocagatg tgcacacaga aatagact gtaacacagc attgtgtgtt ggcgtgcat ctgcctggc tgtgtact tccactct cagaacacagt gtagatacct ctggcaatg gaccaaagc ttgttgatc ttctaccag gaatgtcaac ctggccacgt ccgttgtat gatgaacatt ggcgagtgga ttgggttgg</p>	Homo sapiens

Homo sapiens

P

NP_115942.1

G Protein-Coupled Receptor JEG18

190026

573

aaticccgctt ctaggtgac ctaggaagacg gtttatac tgaagataa alataccatg gcccaagatc ttggagagaa
acagaagcc ttgaagatga ttataacctg tgaaggga ttactaatt gctttgacc ttatcattt agttttctt tagatttct
ggtagagtc aatgaataa aagcagtcct agccagaagg gtatctiaa tattcattc ttggcatg ttgtctgta gtctgaattc
atgtcttgac ccagtcata actactttc cactaagag ttccgaagac ggctttcaag acaagatttg calgacagca tccaactca
tgcaaatcc ttgtgagta accalacag ttccaccatg acacctgaat tatgtataa caaaaaacca aactgaatgt
gacctgaat gcaatlatat cagaatlat ctagaalac caagccacag ggaagaact gcaaaacaac acagctttc
agttctgc tatctactg ctatggggaa ttactctt caagcagga cctatttga gctattagat ccacgallat tgaattgac
atgtccatgt agtaatttt cttaagt

MPANYTCTRP DGDNTDRYF IYAVTYTVL VPGLIGNILA LWFYGYMKE
TKRAVIFMIN LAIADLLQVL SLPLRIFYL NHDWFPGPGL CMFCFYLKYV
NMYASYFLV CISVRRFWFL MYPRFHDCK QKYDLYISIA GWLIICLACV
LFPLRTSDD TSGNRITKCV DLPTNRVNLA QSVMMTIGE LIGFVTPLLI
VLYCTWKTVL SLQDKYPMQ DLGEKQKALK MILTCAGVFL ICFAPYHFSF
PLDFLKSNE IKSLARRVI LIFHSVALCL ASLNSCLDPV IYFSTNEFR RRLSRQDLHD
SIQLHAKSFV SNHTASTMTP ELC

Homo sapiens

A

AF055084

G Protein-Coupled Receptor VLGR1

190031

574

attactgat agtatgat ttagccgiga ttcccaagg ttactttat gacagcatc ttctgaltc ctacagttt attacttcc
cattgoccaa gtttagaac ttatattag ttgtgttc gtacaggcac cactcatgg gagcaacaca gaaatctgt tcaaaacatc
atttcagaa aagaagaa tttagogtt gaggatctt aagaatttg cagtactta tagaactaag tttagaggc taagaggatc
tttaattca tgcattgcaa ttatgtatt ttgtgttg ttatttta ttatttg atttgatga cttggaga gggatgatt ttacttca
agaataagg cttcagtag atcaactcc tgaatagg aacatctca ttgtctgcat cataatag aaaaatgata
acgcagaagg catcattgaa ttgaccaca agtatatg cttcagaag cttcagaag ttggctgat catgatcca
gtgttagggc tacaaggac ttatgctat gtgacagctg attactc tgaagctc tctgocagtc ccggagggt ttgattcatt
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ggagccattg aaatttact cactggagct actggaggag cgtctcttgg gcgcaccta gtgagcagaa tcaatagc
taagatgac tctcccttg gagtataag gtttctaat caaagcaaa ttctatgc taatocaa tccaatga ttatcact
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tactgccaca gaataagac attgcagacc cagtggcgg gtgtctat ttggagag agagaaggagg agtggagaac
ataattctga caatctacc tcatgaagaa attgaagt agagaacat cattataa ctatcttg tgaagagga agctaaata
gactocag claaagatg tacttaacc alaaagagt ttggggccc ttatocct ctttgtaga agagtcaagg gcaacttgg
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agaagagga gtagcttg algtcatt gctaccag gaggactg agtagaggga agtatatg atccagctg ttctgtaga
ggagaggagc gaactggagc tggagagag tatcattg ttctgttt atgcaaat tgaocacat gtagatttg
ccctgatic gtagccag tcaacta ttggcagaa cctattaga tcaatocaa taacataac ccggcttct ggaacattg
gagatgggc tgttgggtt gaaatcat cggatcalaa agaacagccg attgtaccg aaaaagcaga gaggcagcig
gtgtgcaag atgtgtccac atataagtg gactgggtg ccaataagaa tgggtcttc ctactgct cacttaatt cacttgcaa
ctgtgtactg tgaattgt cgggtggag ttctatggaa tggcaaat tcttcaatc gtaaatcgt cgtcttcc agtcttgg
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agaaggcac atggagctt ctagggcc tggagacag gatatgctc tgggttagaa altocigaa ttctgtgt tggcaacatg
accocaacac tggggagct ttacttcc caggtggaac aagggaagg agttttctg tggagcttcc ctaggccctg

575	190031	G Protein- Coupled Receptor VLGR1	AAD55386.1	<p>ggaggactac acatggccta cagacacctic tggatgltgg ttctctgtt cattltaaac agtctgcagg gactttatgt ttatcgtgt tatttcatt tacacaacca aatgtgtgc cctatgaagg ccagttaac tggagaatg aatgggcatc ctggaccag cacagccitt ttacgcccg ggagtggaaat gccctcgtt ggaggggaaa tgcacaaatg caccagaat ctatcgggtg ctatggagga gggtccacct gactgggaga gagatcctt ccaacaggc agtcaggcca gccctgatt aaagccaagt ccacaaaatg gagccaggt cccgtcctt ggagatag gccaggggc actatagoc gatgaggagt ccaggaggt tgaatgatt aatgtgat taanaactgt tgcgtctc agtgcagtg aatgaatc tggcaaggc agccaggagg ggggacctt gactgactc cagatcgg agtcaggag galaccatc gccacacac accitgtaga cctcactaac cattgcacg agcacacti catattgta tgcactttg tgcataact cctaaagat atccaccti gtaataggaa cctgtgaatt gtaaggatg attaalacaa acgtgatgt tgaatgga gataaaita ctgatgtat gtaocctgaa aatcactgc tataagaaag gtagagtcag ttgtatcag ttaataggat gttcatatc caagatatt agtgtttt ttaatcacc tataaggcta acattgtta atgaagtaa taataalaa agcaatagaa tct</p> <p> MQLCIFCCCC ILFYFDLYDF GRGYDFTIQE NGLQIDQPPE IGNIISIVRII IMKNDNAEGI P Homo IEFDPKYTAF EVEEDVGLIM IPVVRLLHGT YVVTADFISQ SSSASPGGVVD sapiens YILHGSTVTF QHQQNLSFIN ISIDDNES FEETIEILLT GATGGA VLGR HLVSRIIAK SDSPFGVIRF LNQKISIAN PNSTMILSLV LERTGGLLGE IQVNWETVGP NSQEALLPQN RDIADPVSL FYFGEGEVGV RTILITYPH EEIEVEETFI IKLHLVKGEA KLDSRAKDVLT LTQEFQDPN GVVQFAPETL SKKTYSEPLA LEGPLLTFF VRRVKGTGE IMVYWELSE FDITDFLST SGFTIADGE SEASFDVHLL PDEVPEIEED YVIQLVSVEG GAELDLEKSI TWFSVYANDD PHGVFALYSD RQSLIGQNL IRSIQNITR LAGTFGDVAV GLRISSDHKE QPIVTENAER QLVVKDGYATY KVDVVPKKNQ VFLSLGSNFT LQLVTVMVLV GRFYGMPTIL QEAASA VLPV SEKAANSQVQ FESTAFQLMN ITAGTSHVMI SRRGTYGALS VAWTTGYAPG LEIPEFIVVG NMTPTLGSL FSHGEQRKGV FLWTFSPGW PEAFVLHLSG VQSSAPGGAQ LRSGFIVAEI EPMGVFQFST SSRNIIVSED TQMIRLHVQR LFGFHSDLIK VSYQTTAGSA KPLEDFEPVQ NGELFFQKFQ TEVDFEITII NDQLSEIEEF FYTNLTSVEI RGLQKFDVNW SPRLNDFS AVTILDNDL LAGMDISFPE TTVA VADTT LIPVETEST YLSTSKTTTI LQPTNVVAIV TEATGVSAP EKL VTLHGTP AVSEKPDVAT VTANVSHGT FSLGPSIVYI EEMKNGTFN TAEVLIRRTG GFTGNVSITY KTFGERCAQM EPNALPFRGI YGHSNLTWAV EEEDFEEQTL TLIFLDGERE RKVSVQILDD DEPEGQEFFY VFLTNPQGA QIVEGKDDTG FAFAMVIT GSDLHNGIIG FSEESQSGLE LREGAVMRRL HLIVTRQPNR AFEDVKVFWR VTLNKTVVVL QKDGVNLMEE LQSVSGTTTC TMGQTKCFIS IELKPEKVPQ VEVYFFVELY EATAGAAINN SARFAQIKL ESEDSQSL VY FSVGSR LAVA HKKATLISLQ VARDSTGLM MSVNFSTQEL RSAETIGRTI ISPAISGKDF VITEGTLVFE PQRSTVLDV ILTPETGSLN SFPKRFQIVL FDPKGGARID KVYGTANITL VSDADSAIW GLADQLHQPV NDDILNRLVH TISMKVATEN TDEQLSAMMH LIEKITTEGK IQAFSVASRT LFYEILCSLI NPKRKDTRGF SHFAEVTENF AFSLLTNVTC GSPGEKSTI LDSCP YLSIL ALHWYPQIN GHKFEKEGD YIRPERLLD VQDAEIMAGK STCKLVQFTE YSSQWFWFISG NNLPTLKNKV LSLSVKQSS QLLTNDNEVL YRIYAAEPRI IPQTSLSCLLW NQAAASWLSQ SQFCKVIEET </p>
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576	190168	G Protein-Coupled Receptor GPR58	NM_014626	ADYVEACSH MSVYAVYART DNLSSYNEAF FTSGFICISG LCLAVLSHF CARYSMFAAK LLTHMAASL GTQILFLASA YASPOLAEES CSAMAAVTHY LYLCQFSWML IQSVNFWYVL VMNDEHTERR YLLFFLLSWG LPAFVVILLI VILKGIYHQS MSQIYGLIHG DLCFIPNVA ALFTAALVPL TCLVVVFVVF IHAYQVKPQW KAYDDVFRGR TNAAEIPLIL YLFALISVTW LWGGLHMYR HFWML VLFVI FNSLQGLYVF MVYFILHNQM CCPMKASYTV EMNGHPGPST AFFTPGSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLLK PSFQNGATFP SSGGYQGSL IADEESQEFD DLIFALKTGA GLSVSDNESG QGSQEGGTLT DSQIVELRRI PIADTHL atgtaattcat ttatggcagg atccattatc atcaaatat ttggcaatct tgcacgata atttccatt oclacttcaa gcagcttccac acacaaacca acttctccat cctctccalg gccalcacig atttctctct gggtatccac atcatgcat atagatgat cagatcggig gagaactgct ggattttgg gcttaccatt tgcagattt attatgatt ttgacctgag cttagcataa catcatttt tcatcttgc tcaglgcca ttgatagatt ttatgcata tgttaccat tacttattc caccaataa actattccag tcaataaaag attgctact ctatgttgg cggctccctgg agcatttggc ttctctcaga ggccatgca gatggaatag agggctatga catcttgggt gcttggcca gtcttggcc agtgatgtc acaagctat gggggaccac ctgtttatg gcaggtttct tctctcgg gtctatgag gggggattt accgcaaaat ttitgcagta tccagaaaac atgctatgac catcaataac ttgcgagaaa atcaaaataa tcaagtgaag aaagacaaaa aagctgcca aactttagga atagtgatag gagttttt attatgttg ttcttgggt ttcttcaat ttatggat cccitttga actcttctac tctgttatt ttgttgaig ccttgacag gtttggctat tttaactcca catgtaatcc gttaataat ggtttctct atccctgggt tgcagagca ctgagatga ttitgcagg taaaatlttc agtctatgt tccataatc tatttgggt atgcacaaag aaagtgaag a MYSFMAGSIF ITIFGNLAMI ISISYFKQLH TPTNFLLSM AITDFLLGFT IMPYSMIRSV P ENCWYFGLTF KIIYYSFSLM LSITSIFHLC SVADRFYAI CYPLLYSTKI TPVVKRLLL LCWSVPGAFA FGAVFSEYA DGIEGYDILV ACSSSCPVMF NKLLWGTTLFM AGFFTSGSMM VGIYGGKIFAV SRKHAHAINN LRENQNNQVK KDKKAAKTILG IVIGVFLLCW FPCFFTTILLD PFLNFSTPVV LFDALTWFGY FNSTCNPLIY GFFYPWFRRA LKYILLGKIF SSCFHNTILC MQKESE atggatccta ctatattcc cgaagaccta tccagtgtc caaaattgt aaataagalc ctgtctccc accaacctct ctittcatgt A ccaaggigala atgtattcgg ttatgactgg agccatgatt atccattat cggaaacttg gtataatgg ttccatcgc gctttcaaa cagcttcatc ctccacaaa ctcttgatc ctctccalg caaccacgga ctctctgctg gggtttgca ttatgccala cagcataatg cgatcagtg agagtgtcgt gactttggg gatggcttt gtaattcca cacaaacttt gacatgagc tcatgctgac ctccatttc cactctgtt ccatgtcat tgaccgatt tatggcgtgt gttaccttt acattacaca accaaaatga cgaactccac calaaagcaa ctgtggcat ttgtctggc agttcctgt ctittttt ttgtttatg tctatcag agccatgtt ccggtatgca gagctataag atactgttg ctgtctcaa ttctgtcc ctacttca acaattctg ggggacaala ttgttacta catgtttct tacctctggc tccatcagg ttgtattta tggcaaatc ttatcgtt ccaacagca tctctcagtc atcagccalg tgcctgaaaa cacaaagggg gcagtgaaaa aacacatc caagaaaaag gcagggaaaag cagcgaagac acttgggtala gtaattgggg ttgtctggc ttgtctgggt cctgtttc ttgtctgt gattgacca taactagct actcactcc cataacta ttggatctt tagtgggct ccgttactc aactctat gcaacctct tatcagtc ttittaatc calgtttca gaaagcattc aagtacatag tgtcaggaaa aatattgac tccattcag aaactgcaa ttgtttct gaagcatt aa MDLTYPEDL SSCPKFVNKI LSSHQPLFSC PGDNVFGYDW SHDYPLFGNL P VIMVSISHFK QLHSPNTNFI LSMATTDFLL GFVIMPYSIM RSVESCWYFG	Homo sapiens
577	190168	G Protein-Coupled Receptor GPR58	NP_055441.1	ADYVEACSH MSVYAVYART DNLSSYNEAF FTSGFICISG LCLAVLSHF CARYSMFAAK LLTHMAASL GTQILFLASA YASPOLAEES CSAMAAVTHY LYLCQFSWML IQSVNFWYVL VMNDEHTERR YLLFFLLSWG LPAFVVILLI VILKGIYHQS MSQIYGLIHG DLCFIPNVA ALFTAALVPL TCLVVVFVVF IHAYQVKPQW KAYDDVFRGR TNAAEIPLIL YLFALISVTW LWGGLHMYR HFWML VLFVI FNSLQGLYVF MVYFILHNQM CCPMKASYTV EMNGHPGPST AFFTPGSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLLK PSFQNGATFP SSGGYQGSL IADEESQEFD DLIFALKTGA GLSVSDNESG QGSQEGGTLT DSQIVELRRI PIADTHL atgtaattcat ttatggcagg atccattatc atcaaatat ttggcaatct tgcacgata atttccatt oclacttcaa gcagcttccac acacaaacca acttctccat cctctccalg gccalcacig atttctctct gggtatccac atcatgcat atagatgat cagatcggig gagaactgct ggattttgg gcttaccatt tgcagattt attatgatt ttgacctgag cttagcataa catcatttt tcatcttgc tcaglgcca ttgatagatt ttatgcata tgttaccat tacttattc caccaataa actattccag tcaataaaag attgctact ctatgttgg cggctccctgg agcatttggc ttctctcaga ggccatgca gatggaatag agggctatga catcttgggt gcttggcca gtcttggcc agtgatgtc acaagctat gggggaccac ctgtttatg gcaggtttct tctctcgg gtctatgag gggggattt accgcaaaat ttitgcagta tccagaaaac atgctatgac catcaataac ttgcgagaaa atcaaaataa tcaagtgaag aaagacaaaa aagctgcca aactttagga atagtgatag gagttttt attatgttg ttcttgggt ttcttcaat ttatggat cccitttga actcttctac tctgttatt ttgttgaig ccttgacag gtttggctat tttaactcca catgtaatcc gttaataat ggtttctct atccctgggt tgcagagca ctgagatga ttitgcagg taaaatlttc agtctatgt tccataatc tatttgggt atgcacaaag aaagtgaag a MYSFMAGSIF ITIFGNLAMI ISISYFKQLH TPTNFLLSM AITDFLLGFT IMPYSMIRSV P ENCWYFGLTF KIIYYSFSLM LSITSIFHLC SVADRFYAI CYPLLYSTKI TPVVKRLLL LCWSVPGAFA FGAVFSEYA DGIEGYDILV ACSSSCPVMF NKLLWGTTLFM AGFFTSGSMM VGIYGGKIFAV SRKHAHAINN LRENQNNQVK KDKKAAKTILG IVIGVFLLCW FPCFFTTILLD PFLNFSTPVV LFDALTWFGY FNSTCNPLIY GFFYPWFRRA LKYILLGKIF SSCFHNTILC MQKESE atggatccta ctatattcc cgaagaccta tccagtgtc caaaattgt aaataagalc ctgtctccc accaacctct ctittcatgt A ccaaggigala atgtattcgg ttatgactgg agccatgatt atccattat cggaaacttg gtataatgg ttccatcgc gctttcaaa cagcttcatc ctccacaaa ctcttgatc ctctccalg caaccacgga ctctctgctg gggtttgca ttatgccala cagcataatg cgatcagtg agagtgtcgt gactttggg gatggcttt gtaattcca cacaaacttt gacatgagc tcatgctgac ctccatttc cactctgtt ccatgtcat tgaccgatt tatggcgtgt gttaccttt acattacaca accaaaatga cgaactccac calaaagcaa ctgtggcat ttgtctggc agttcctgt ctittttt ttgtttatg tctatcag agccatgtt ccggtatgca gagctataag atactgttg ctgtctcaa ttctgtcc ctacttca acaattctg ggggacaala ttgttacta catgtttct tacctctggc tccatcagg ttgtattta tggcaaatc ttatcgtt ccaacagca tctctcagtc atcagccalg tgcctgaaaa cacaaagggg gcagtgaaaa aacacatc caagaaaaag gcagggaaaag cagcgaagac acttgggtala gtaattgggg ttgtctggc ttgtctgggt cctgtttc ttgtctgt gattgacca taactagct actcactcc cataacta ttggatctt tagtgggct ccgttactc aactctat gcaacctct tatcagtc ttittaatc calgtttca gaaagcattc aagtacatag tgtcaggaaa aatattgac tccattcag aaactgcaa ttgtttct gaagcatt aa MDLTYPEDL SSCPKFVNKI LSSHQPLFSC PGDNVFGYDW SHDYPLFGNL P VIMVSISHFK QLHSPNTNFI LSMATTDFLL GFVIMPYSIM RSVESCWYFG	Homo sapiens
578	190170	G Protein-Coupled Receptor GPR57	NM_014627	ADYVEACSH MSVYAVYART DNLSSYNEAF FTSGFICISG LCLAVLSHF CARYSMFAAK LLTHMAASL GTQILFLASA YASPOLAEES CSAMAAVTHY LYLCQFSWML IQSVNFWYVL VMNDEHTERR YLLFFLLSWG LPAFVVILLI VILKGIYHQS MSQIYGLIHG DLCFIPNVA ALFTAALVPL TCLVVVFVVF IHAYQVKPQW KAYDDVFRGR TNAAEIPLIL YLFALISVTW LWGGLHMYR HFWML VLFVI FNSLQGLYVF MVYFILHNQM CCPMKASYTV EMNGHPGPST AFFTPGSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLLK PSFQNGATFP SSGGYQGSL IADEESQEFD DLIFALKTGA GLSVSDNESG QGSQEGGTLT DSQIVELRRI PIADTHL atgtaattcat ttatggcagg atccattatc atcaaatat ttggcaatct tgcacgata atttccatt oclacttcaa gcagcttccac acacaaacca acttctccat cctctccalg gccalcacig atttctctct gggtatccac atcatgcat atagatgat cagatcggig gagaactgct ggattttgg gcttaccatt tgcagattt attatgatt ttgacctgag cttagcataa catcatttt tcatcttgc tcaglgcca ttgatagatt ttatgcata tgttaccat tacttattc caccaataa actattccag tcaataaaag attgctact ctatgttgg cggctccctgg agcatttggc ttctctcaga ggccatgca gatggaatag agggctatga catcttgggt gcttggcca gtcttggcc agtgatgtc acaagctat gggggaccac ctgtttatg gcaggtttct tctctcgg gtctatgag gggggattt accgcaaaat ttitgcagta tccagaaaac atgctatgac catcaataac ttgcgagaaa atcaaaataa tcaagtgaag aaagacaaaa aagctgcca aactttagga atagtgatag gagttttt attatgttg ttcttgggt ttcttcaat ttatggat cccitttga actcttctac tctgttatt ttgttgaig ccttgacag gtttggctat tttaactcca catgtaatcc gttaataat ggtttctct atccctgggt tgcagagca ctgagatga ttitgcagg taaaatlttc agtctatgt tccataatc tatttgggt atgcacaaag aaagtgaag a MYSFMAGSIF ITIFGNLAMI ISISYFKQLH TPTNFLLSM AITDFLLGFT IMPYSMIRSV P ENCWYFGLTF KIIYYSFSLM LSITSIFHLC SVADRFYAI CYPLLYSTKI TPVVKRLLL LCWSVPGAFA FGAVFSEYA DGIEGYDILV ACSSSCPVMF NKLLWGTTLFM AGFFTSGSMM VGIYGGKIFAV SRKHAHAINN LRENQNNQVK KDKKAAKTILG IVIGVFLLCW FPCFFTTILLD PFLNFSTPVV LFDALTWFGY FNSTCNPLIY GFFYPWFRRA LKYILLGKIF SSCFHNTILC MQKESE atggatccta ctatattcc cgaagaccta tccagtgtc caaaattgt aaataagalc ctgtctccc accaacctct ctittcatgt A ccaaggigala atgtattcgg ttatgactgg agccatgatt atccattat cggaaacttg gtataatgg ttccatcgc gctttcaaa cagcttcatc ctccacaaa ctcttgatc ctctccalg caaccacgga ctctctgctg gggtttgca ttatgccala cagcataatg cgatcagtg agagtgtcgt gactttggg gatggcttt gtaattcca cacaaacttt gacatgagc tcatgctgac ctccatttc cactctgtt ccatgtcat tgaccgatt tatggcgtgt gttaccttt acattacaca accaaaatga cgaactccac calaaagcaa ctgtggcat ttgtctggc agttcctgt ctittttt ttgtttatg tctatcag agccatgtt ccggtatgca gagctataag atactgttg ctgtctcaa ttctgtcc ctacttca acaattctg ggggacaala ttgttacta catgtttct tacctctggc tccatcagg ttgtattta tggcaaatc ttatcgtt ccaacagca tctctcagtc atcagccalg tgcctgaaaa cacaaagggg gcagtgaaaa aacacatc caagaaaaag gcagggaaaag cagcgaagac acttgggtala gtaattgggg ttgtctggc ttgtctgggt cctgtttc ttgtctgt gattgacca taactagct actcactcc cataacta ttggatctt tagtgggct ccgttactc aactctat gcaacctct tatcagtc ttittaatc calgtttca gaaagcattc aagtacatag tgtcaggaaa aatattgac tccattcag aaactgcaa ttgtttct gaagcatt aa MDLTYPEDL SSCPKFVNKI LSSHQPLFSC PGDNVFGYDW SHDYPLFGNL P VIMVSISHFK QLHSPNTNFI LSMATTDFLL GFVIMPYSIM RSVESCWYFG	Homo sapiens
579	190170	G Protein-Coupled Receptor	NP_055442.1	ADYVEACSH MSVYAVYART DNLSSYNEAF FTSGFICISG LCLAVLSHF CARYSMFAAK LLTHMAASL GTQILFLASA YASPOLAEES CSAMAAVTHY LYLCQFSWML IQSVNFWYVL VMNDEHTERR YLLFFLLSWG LPAFVVILLI VILKGIYHQS MSQIYGLIHG DLCFIPNVA ALFTAALVPL TCLVVVFVVF IHAYQVKPQW KAYDDVFRGR TNAAEIPLIL YLFALISVTW LWGGLHMYR HFWML VLFVI FNSLQGLYVF MVYFILHNQM CCPMKASYTV EMNGHPGPST AFFTPGSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLLK PSFQNGATFP SSGGYQGSL IADEESQEFD DLIFALKTGA GLSVSDNESG QGSQEGGTLT DSQIVELRRI PIADTHL atgtaattcat ttatggcagg atccattatc atcaaatat ttggcaatct tgcacgata atttccatt oclacttcaa gcagcttccac acacaaacca acttctccat cctctccalg gccalcacig atttctctct gggtatccac atcatgcat atagatgat cagatcggig gagaactgct ggattttgg gcttaccatt tgcagattt attatgatt ttgacctgag cttagcataa catcatttt tcatcttgc tcaglgcca ttgatagatt ttatgcata tgttaccat tacttattc caccaataa actattccag tcaataaaag attgctact ctatgttgg cggctccctgg agcatttggc ttctctcaga ggccatgca gatggaatag agggctatga catcttgggt gcttggcca gtcttggcc agtgatgtc acaagctat gggggaccac ctgtttatg gcaggtttct tctctcgg gtctatgag gggggattt accgcaaaat ttitgcagta tccagaaaac atgctatgac catcaataac ttgcgagaaa atcaaaataa tcaagtgaag aaagacaaaa aagctgcca aactttagga atagtgatag gagttttt attatgttg ttcttgggt ttcttcaat ttatggat cccitttga actcttctac tctgttatt ttgttgaig ccttgacag gtttggctat tttaactcca catgtaatcc gttaataat ggtttctct atccctgggt tgcagagca ctgagatga ttitgcagg taaaatlttc agtctatgt tccataatc tatttgggt atgcacaaag aaagtgaag a MYSFMAGSIF ITIFGNLAMI ISISYFKQLH TPTNFLLSM AITDFLLGFT IMPYSMIRSV P ENCWYFGLTF KIIYYSFSLM LSITSIFHLC SVADRFYAI CYPLLYSTKI TPVVKRLLL LCWSVPGAFA FGAVFSEYA DGIEGYDILV ACSSSCPVMF NKLLWGTTLFM AGFFTSGSMM VGIYGGKIFAV SRKHAHAINN LRENQNNQVK KDKKAAKTILG IVIGVFLLCW FPCFFTTILLD PFLNFSTPVV LFDALTWFGY FNSTCNPLIY GFFYPWFRRA LKYILLGKIF SSCFHNTILC MQKESE atggatccta ctatattcc cgaagaccta tccagtgtc caaaattgt aaataagalc ctgtctccc accaacctct ctittcatgt A ccaaggigala atgtattcgg ttatgactgg agccatgatt atccattat cggaaacttg gtataatgg ttccatcgc gctttcaaa cagcttcatc ctccacaaa ctcttgatc ctctccalg caaccacgga ctctctgctg gggtttgca ttatgccala cagcataatg cgatcagtg agagtgtcgt gactttggg gatggcttt gtaattcca cacaaacttt gacatgagc tcatgctgac ctccatttc cactctgtt ccatgtcat tgaccgatt tatggcgtgt gttaccttt acattacaca accaaaatga cgaactccac calaaagcaa ctgtggcat ttgtctggc agttcctgt ctittttt ttgtttatg tctatcag agccatgtt ccggtatgca gagctataag atactgttg ctgtctcaa ttctgtcc ctacttca acaattctg ggggacaala ttgttacta catgtttct tacctctggc tccatcagg ttgtattta tggcaaatc ttatcgtt ccaacagca tctctcagtc atcagccalg tgcctgaaaa cacaaagggg gcagtgaaaa aacacatc caagaaaaag gcagggaaaag cagcgaagac acttgggtala gtaattgggg ttgtctggc ttgtctgggt cctgtttc ttgtctgt gattgacca taactagct actcactcc cataacta ttggatctt tagtgggct ccgttactc aactctat gcaacctct tatcagtc ttittaatc calgtttca gaaagcattc aagtacatag tgtcaggaaa aatattgac tccattcag aaactgcaa ttgtttct gaagcatt aa MDLTYPEDL SSCPKFVNKI LSSHQPLFSC PGDNVFGYDW SHDYPLFGNL P VIMVSISHFK QLHSPNTNFI LSMATTDFLL GFVIMPYSIM RSVESCWYFG	Homo sapiens

GPR57

580 190188 G Protein-
Coupled Receptor
LGR6 AB049405

DGfCKfHTSF DMMLRLTSf HLCSIAIDRF YAVCYPLHYT TKMTNSTIKQ
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NSTCNPLIHG FFPNWFQKAF KYIVSGKIFS SHSETANLFP EAH

A Homo
sapiens

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gaaacctttt gggtgaacccc aaacctccat gggaagggtga ctgtgtctga gggtcaggggg atctacggca gcaagggtggag
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581	190188	G Protein-Coupled Receptor LGR6	AAG17168.1	<p>ttocctttcc ttctccccc tgggtgaatg atggctgctt claaacaaa tacaacaaa actcagcagc gtgatctata gcagatggc ccagtaacctg gctocactga tcaactctt ccctgagaca tacaacacgg gtgctcttgg ccttggctt ccttggcct tctcagctt cacttgata ctgggctct tcttgatcgt gctgaagct gtagacaga gacctggact ttgtctgct taagggaat gagggaagta aagacagta aggggtggag ggtgata</p> <p>MRLEGEGRSA RAGQNLNRAG SARRGAPRDL SMNNLTELQP GLFHHLRFLF ELRLSGNHLH HPQAFSGL YSLKILMLQN NQLGGIPAEA LWELPSLQSL DLNYNKLOEF PVAIRTLRL QELGFHNNNI KAPEKAFMG NPLLQTHIFY DNPIQFVGRS AFQYLPKLHT LSLNGAMDIQ EFPDLKGTTS LEILTLTRAG IRLPSGMCO QLPLRVLEL SHNQIEELPS LHRCKLEEL GLQHNRIWEI GADTFSQLSS LQALDLSWNA IRSHPEAFS TLHSLVKLDL TDNQLTTLPL AGLGGLMHLK LKGNLALSQA FSKDSFPKLR ILEVPIYQC CPYGMCSFF KASQWEAED LHLDEESSK RPLGLLARQA ENHYDQDLDE LQLEMEDSKP HPSVQCSPTP GPFKPCYLF ESWGIRLAVW AIVLLSVLCN GLVLLTVFAG GPVPLPVKF VVGAIGANT LTGISCGLLA SVDALTFQGF SEYGARWETG LGCRATGFLA VLGEASVLL LTLAAVQCSV SVSCVRAYGK SPSSLVSVALG VLGLALAGL AAALPLASVG EYGASPLCLP YAPPEGQPAALGFTVALVMM NSFCFLVAVG AYKLYCDLP RGDFAVWDC AMVRHVAVLI FADGLLYCPV AFLSFASMLG LFPVTPEAVK SVLLVVLPL ACLNPLLYLL FNPFRDDLRL RLRPRAGDSG PLAYAAAGEL EKSSCDSTQA LVAFSDVDLI LEASEAGRP GLETYGFPSV TLISCCQPGA PRLEGSHCPE PEGNHFGNPQ PSMDGELLRL AEGSTPAGGG LSGGGGFQPS GLALLHTY</p>	P	Homo sapiens
582	190414	G Protein-coupled Receptor GPR101	AF411115	<p>atgagctca cctgacaaa cagcacggc gagagtaaca gcagacacac gtgcatggcc ctctcaaaa tgcacatag cctggccac ggcatatcc gctcaacgt gctggtaic ttctggccg cctcttgg cggcaacata gtgctggcgc taggttgca gcgcaagccg cagctgctgc aggtgaccaa cctgttaic tttaacctc tctgaccca cctgctgcag atttgcctg tggcccttg ggtgggtggcc acctgtgc ctctcttc gcccctcaac agccactct gcaaggccct ggttagctc acctactgt ttgctctgc cagctgaac acctgtgc tgggtcagt ggtatgctac ttgtcataca tcaacctc ctctaaccc tcaagatga ccagcgcg cggttacctg ctctatg gcacctggat tgtggccalc ctgcagagca ctctccact ctacggctgg ggccaggctg cctttgatga gcgcaatgct ctctgtcca tgcctgggg ggccaggccc agctacacia ttctcagcgt ggtgtcttc atgtcatic cacttgatg catgattgct tgcactccg tgggtgtc tgcaggccc aggcagcalt ctctctgta caatgtcaag agacacagct tggatgtgg agtcaaggac tgggtggaga atgagtgatga agagagagca agagagatcca aggtatcca ggtatcggc ggccagatga aggttgggtc aagggccaag agggcagaaat gggaagccaag gacggcagcc tgaaggcca acgggtggcca gggacggcag catgggtgggt aaggaagagca gaccaaagt agaggaagac agcatgaagg cagacaagg tgcacagag gtcaacctgt gcaacattga ctgggtgaa gataacaltg agtttggta agacgacalc aatticag aggtatgacct cgaaggcag agaatccgg agagccctcc acctagct cgttaacaga acagcaaccc tctctggcc aggtgtclacc agtgcgaagc tgciaaagg atctcatca tcatcttc ctatgtgcta tccctggggc cctactgt tttagcagtc ctggccgtgt gggtggatgt cgaacacac gtacccagt gggtgtatc cataatcalt tggcttct tctgcagtc ctgtccac cctatgct atgtgtatcat gcaacagacc ataaagagg aatccaagg catgtcgaag aagttctct gcaagggaaa gccccggaaa gaaagataggc acctagacct gcccgggaaca gagggtggga ctgaaggcaaa gattgtacct tctacgatt ctgtacttt tcttga</p>	A	Homo sapiens

583	190414	G Protein-coupled Receptor GPR101	CAC33098.1		<p>MTSTCTNSTR ESNSSHTCMP LSKMPSLAH GIIRSTVLVI FLAASFVGNV LVALVLQRKP P</p> <p>QLLQVTRRFI FNLLVTDLLQ ISLVAPWVVA TSVPLFWPLN SHFCTALVSL</p> <p>THLFAFASVN TIVLVSVDYR LSIHPLSY SKMTQRRGYL LLYGTWIVAI</p> <p>LQSTPPLYGW QQAADFERNALCSMIWGASP SYTILSVVSF IVPLIVMIA</p> <p>CYSVVFCAAR RQHALLYNVK RSHLEVRVKD CVENEDEEGA EKKEEFQDES</p> <p>EFRRQHEGEV KAKEGRMEAK DGSLLAKEGS TGSESSVEA RGSEEVRESS</p> <p>TVASDGSMEG KEGSTKVEEN SMKADKGRTE VNQCSIDLGE DGMEFGEDDI</p> <p>NFSEDDVEAV NIPESLPPSR RNSNSNPPLP RCYQCKAAKV IFIILFSYVL SLGPYCFILAV</p> <p>LAVVVDVETQ VPQWVITIII WLFFLQCCIH PYVGYMHKT IKKEIQDMLK</p> <p>KFFCKEKKPK EDSDPDLPGT EGGTEGKIVP SYDSATFP</p>	Homo sapiens
584	190418	Inflammation-Related G Protein-Coupled Receptor EX33	NM_020370		<p>taactgcca ccagaaagga ctgctcttg ggtgagltga acitctcca tatagaaag aatugaaggc tgagaaacac agccctatc A</p> <p>atlgggaaca gctctgacgc caactctcc lgtcaacalg agtctgtgct gggtatcgt taigtgtcag ttgctgggg</p> <p>ggtgtgtgtg gctgtgacag gcacggtggg caatgtgctc accctactgg ccttggccat ccagcccaag ctocgtaccc</p> <p>gattcaacct gctcatalgoc aactcaccac tggctgactc cctctactgc acgtctctc agccctctc tgggacac taectcacc</p> <p>lgtcactggcg caocgtgtcc accctctgca gggatattgg gctcctcct ttgtctcca attctgtc cactctgacc cctgtcctca</p> <p>tgccactggg accctactc ctatlgccc acciaagct ttccccaa gtttcagtg ccaaggggat agtctgggca</p> <p>ctgtgtgagca cctgggtgtg gggcgtggcc agcttctgtc cctctggcc tatttatac ctgttacttg tagtctgac ctgcagctt</p> <p>gaccgcatcc gaggccggcc ttaccacc atctcactgg gcatctact tgtctgtgg ctacgacgtg ttggcatct ctatgtcct</p> <p>atccacgcc aggtcaaacg agcagcacag gcactggacc aataaagt ggcacaggca agcatccat ccaaccatgt</p> <p>ggccaggact gatgagcca lgcctgtctg ttccagagag ctggacagca ggttagcaltc agggaggaacc agtggagggga</p> <p>tttcatctga gccactcagt gctgccaca ccagaccct ggaaaggaggac lcatcagaag tgggagacca gattcaacagc</p> <p>aagagagcta agcagatggc agagaaagc cctccagaag catctgcca agccacca attaaaggag ccagaaagagc</p> <p>tccgattct lcatggaa ttgggaaggt gactgaaag ttgtttgtg tgtctctg ctgtccctg agtctgac cctctgtct</p> <p>gctcaacatt cttgagcca gattccaggc tcccggggtg gtcacatgc ttgtctgcca cctcacttgg ctcaatgtt</p> <p>gcatcaacc tgtgtctat gcagccatga accgcaatt ccgcaagca tatggctcca tttaaaag agggcccccgg</p> <p>agttccata ggctccatga gactgtgac octagtacc agaatcagg actgtctct ccaggacca agtggccaagg</p> <p>taalaggaga ataggagaa taacacatgt gggcatctc acaacaat ctccccagc tcccaatca agtctcca tcaatgac</p> <p>aatgttcag ccttagactg cccaaggagt attaatat attaatat gaattctgt ctttaaaaa aaaaaaata aaaaaa</p> <p>aaaaaaaaa aaaaaaa aaaaa</p>	Homo sapiens
585	190418	Inflammation-Related G Protein-Coupled Receptor EX33	NP_065103.1		<p>MWNSSDANFS CYHESVLGYR YVAVSWGVVV AVTGTGVNVL TLLALAIQPK P</p> <p>LRTRFNLLIA NLTLADLLYC TLLQPFSDVT YLHLHWRTGA TFCRVFGLLL</p> <p>FASNSVSILT LCLIALGRYL LIAHPKLFQ VFSAGGIVLA LVSTWVVGVA SFAPLWPIYI</p> <p>LVPVCTCSF DRIRGRPYTT ILMGIYFVLG LSSVGIFYCL IHRQVKRAAQ</p> <p>ALDQYKLRQA SIHNSHVART DEAMPGRFQE LDRSLASGSP SEGISEPVS</p> <p>AATTQLEGD SSEVGDQINS KRAKQMAEKS PPEASAKAQ IKGARRAPDS</p> <p>SSEFGKVTRM CFAVFLCFAL SYTFLLNI LDARVQAPRV VHMALANLTW</p> <p>LNGCINPLY AAMNRQFRQA YGSILKRGPR SFHRLH</p>	Homo sapiens
586	190419	G Protein-Coupled Receptor Ls190419	AJ303165		<p>cttggctca gagctaac accagtttct ctctccacag caataatct gagcgtgac atctctcc agctgtggc aagaagacag A</p> <p>aagtctctct acaactat ctggcact gcctgtccg acatctgt cctctttt atagtgtt tggactct gttggagat</p> <p>ttactctga acatgagat gctcaggc ccgacaaga tcatgaagt gctggaaatc tcatcatc caactccat atgattact</p>	Homo sapiens

587	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	LCFRAKPVFL LSTANILTVI ILSQLVARRQ KSSYNVLLAL AAADILVLFF IVFVDFLLED FILNMQMPQV PDKIEVLEF SSIHTSIWIT VPLTIDRYIA VCHPLKYHTV SYPARTKVI VSVYITTCFLT SIPYYWPNPNI WTEDIYSTSV HHVLIWHCF TVYL VPCSF FILNSIIVYK LRRKSNFRLR GYSTGKTTAI LFTITSIFAT LWAPRUIMIL YHL YGAPIQN RWLVHIMSDI ANMLALLNTA INFLYCFIS KRFR	P	Homo sapiens
588	190427	Cysteinyln Leukotriene CYSLT2 Receptor	NM_020377	aaagtgtctaa agtttgagc gtacgtctca accaaacaaa ttaalggtc tttacattc aaaaatcagg aaatttaaat ttattatgaa atgtatgca gcaatgtatga agacttaac cagtgttta aaactcaact ttcaaatgaaa agatagttat gctccgtgt tcatuaaac ctagagagat gtaatcagta agcaagaaag aaaaaggagaa attcaaaa taacttttg tttctgttc tttaaccc agcatggaga gaaaattat gtcttgcaa ccatcatct ccgtatcaga aatggacaoca aatggacaoca ttagcaataa caacagcagg aacgtgacaaa ttgaaaacti caagagagaa ttittoccaa ttgtatatt gataatatt ttctggggag tcttgggaaa tgggtgtgtcc ataatgtt tcttgcaagc ttatagaaag tccatcttg tgaacgttt cagtataat ctggccatt cagatctct gttcataagc acgttccct tcaagggtcga ctatattt agaggtcoca atggatatt tggagaccig gccgtcagga ttatgtcta ttcttgtat gtcaaatgt acagcagat ttattctg accgtgtcga gtgtgtgtg ttcttgga atgggtcacc ctttgggt tctgtcagtc accagtcaca ggggtgtgtgt gtatctgt ggggtatatt gggatctat catgggtct tcaataatgc tcttggtacag tgggtcttgag caagaaagcga gtgtcacatc atgtctagag ctgaatctt ataaattgc ttatgtcag accatgaact atattgtcct gggtgtgtgtgt tgcctgtcgc catttcac actcagcalt gttatctgc tgaatctgc ggtctgtgta aaggtgtgtgt tccagaatc gggtgtgtgtgt gttctcaca ggaaggtcact gaccacatc atcatcact tgaatcact cttctgtgt ttctgtcct atcacact gaggtacgtc cactgtacga catggaaagt ggggtttatgc aaagacagac tgcataaagc ttgggttatc acactgtcct tggcagcagc caatgtcctg ttcaatcic tgcctatta cttgtgtgtgt gagaatttta aggacagact aaggtctgtga ctcagaaag gccatocaa gaaaggtcaga acaaggtgtgt ttctctgt tgggtgtgtgt tgggtgtgtgt aaaaaggtgt ataaggtgtgt ctatagtag accgtgtgt gttatctgt gttatctc attcatcact agttctcaca tgaattgtta ttatcaltac tccacaacaa tgtgtattt ttatatttag ttgaccatta ctttgtta ttatgttaa ttatgttaa ttatgttaa ttatgttaa tgggtgtgtgt ttgtatccta ctttttca gttatgaac cagatctcgc gccatcagc ctttttaaat tcttcaaaag agccacaact tcccaagctt ctcagctcgc cctgtctct tcaatcctt gagaatagc aactacagac gttatctgtgaa gccatcagc agaaagaaag cactatccta gttatcagcga aagactaact gttgaaagga aggtgtgtgt ataaacaaagc agcatcagc cccaagtaag gacaggtgaa gaaaggtgtgtgt gagaaggtgtgt gaaaggtgtgt gaaaggtgtgt gaaaggtgtgt ttcatgtgt atgtgtgtgt atgtgtgtgt atgtgtgtgt atgtgtgtgt atgtgtgtgt atgtgtgtgt atgtgtgtgt aaaaggtgtgt ggaaggtgtgt ggaaggtgtgt ggaaggtgtgt ggaaggtgtgt ggaaggtgtgt ggaaggtgtgt atgtatctca atattctt ggaaggtgtgt ggaaggtgtgt ggaaggtgtgt ggaaggtgtgt ggaaggtgtgt ggaaggtgtgt aaaaggtgtgt cttctgtgtgt ggaaggtgtgt ggaaggtgtgt ggaaggtgtgt ggaaggtgtgt ggaaggtgtgt ggaaggtgtgt cctgtgtgtgt taltatcct tccgtgtgtgt atgtgtgtgt atgtgtgtgt atgtgtgtgt atgtgtgtgt atgtgtgtgt atgtgtgtgt agaggtgtgt tttgtgtgt tgaagaaagc atgtgtgtgt tccatcagc tccatcagc tccatcagc tccatcagc tccatcagc tccatcagc tccatcagc	A	Homo sapiens

G Protein- Coupled Receptor 322
Ls190438

190438

593

AQDPVKPWQL LENMYNLTFH VGGLPLRFDS SGNVDMYDYL KLWVWQGSVP
 RLHDVGRFNG SLRTERLKIR WHTSDNQVRP QACAQKPVSR CSRQCQEGQV
 RRVKGFHSCC YDCVDCEAGS YRQNPDDIAC TFCQDEWSP ERSTRCFRRR
 SRFLAWGEPA VLLLLLLSL ALGLVLAALG LRVHHRDPL VQASGGPLAC
 FGLVCLGLVC LSVLLFPQP SPARCLAQOP LSHLPLTGCL STLFLQAAEI
 FVESELPSW ADRLSGCLRG PWAWLVLVLLA TLVEVALCTW YLVAFFPEVV
 TDWHMLPTEA LVHCRTRSWV SFGLAHATNA TLAFCLFLT FLVRSQPGRY
 NRARGLTFAM LAYFITWVSF VPLLANVQV LRPVQMGAL LLCVLGILAA
 FHLPRCYLLM RQPLNTPF F

594 190484 G Protein- Coupled Receptor Ls190484 LG95579 Homo sapiens

tcgactggc tggctctct gctgcctcg ggccttllca ctgctctggg gggcctggcg gttctggag cctcatggcg ggcctggcg A
 cggggccgc tctggcgggg tctgctggg gcttctct tcaaggcag gaggctggcg tgggtctca agggccctg
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 ggcagctca ggcacata ggcctgacaga atggctggg ccacaggcg gaagcccg caggctggcg gctgctggg
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 ggaactccag catctcag gacgctct cgtgctcca gaagtcagg caggagacca ggtcgtaacca ccagaggca
 gctcgggga agacagoca gggcagctg aaagctggg ccagacoca gacacggcg caggaccca gggcgagcg
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 cggatctia ggaictggga ggcgctgct gcaaggaaca gaagctaga gaggggcag ctaggagga gcaagcgag
 accgctga gctccalg gggcctggga ggcggcagc cagcgcatca accatggg tggcagcca agggcagga
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 catgctac accttgag taatact atgcaagg ctagagtg atgactat ggaactca tcaatctac ttacag
 MEADLGATGH RPRTELDDED SYPQGGWDTV FLVALLLLGL PANGLMAWLA P
 GSQARHGAGT RLALLLSLA LSDFLFAA AFQLEIRHG GHWPLGTAAC
 RFYFLWGVS YSSGLFLAA LSDRLCLAL CPHWYPGHRP VRLPLWVCAG
 VWVLAFLSV PWLVFPEAAV WYVDLVICLD FWDSELSLR MLEVGGFLP
 FLLLVLCHVL TQATACRTCH RQQPAACRG FARVARTILS AYVVLRLPYQ
 LAQLLYLAFI WDVYSGYLLW EALVYSDYLI LNSCLSPFL CLMASADLRT
 LLRSVLSFA AALCEERPGS FTPTPTQL DSEGTLPPEP MAEAQSQMDP
 VAQPQVNPTL QPRSDPTAQP QLNPATAQPS DPTAQQLNL MAQPQSDSVA
 QPQADTNVQT PAPAASSVPS PCDEASPTPS SHPTGALED PATPPASEGE SPSTTPEAA
 PGAG

595 190484 G Protein- Coupled Receptor Ls190484 ENSMPRT2619 43 Homo sapiens

596	190595	G Protein- Coupled Receptor SH120	NM_016334	agcaccitggg aaaaaggcaga ccgtgttgagg gggcccttggg occcagcgtg ctgtggccct ggggagtaggg aagtgaggagc aggagccctc ctacaccc ggcagtggt tctgacga ctcagcagc atgataact cccaataact atttttggg ttgggtggc ttttctcat ggcgaattg tttaagact atgagatag tcaatagt gtacaggtga tcttccgt gaegtgttga tttcttga ccaagtgtga gctcalcalt ttgaatct taggagtaatt gaatagcagc tccgttaatt ttacatggaa aatgaaccgt tgcgtaalt tgcgtatcct gggtttcag gtgcctttt acattggcga ttatttgg agcaatatac gatactatga taacaacga ctgctttt ccigtcttt atggctgac ttatgtatt tctcttggaa actaggagat cccitttcca ttccagccc aatacatggg atctatcca tagaacaact catcagccgg gtgtgttga ttgggtgtgac tctatggct ctcttctg gatttggggc tgcacatgc ccatcact acatgtctta ctctcaggg aatgtgacgt acacagatalt tctagccctt gaaaggcagc tgcigcaaac catggatagt atcataagca aaagaagaaag gatggcaatg gcacggagaa caatgttcca gaagggggaa gtgcataaca aaocatcagg ttctgggga atgataaaa gtgttacc ttacatca ggaagtgaat atctactct tatcaacag gaagtgtgag ctgtggaaaga attaagcagg cagcttttc tggaaacagc tgaataltat gctaccaagg agagaataga atactocaaa accitcaagg ggaaatatt taatttctt ggttacttt tctatttga ctgtgttgg aaattttca tggtaacct caatattgt ttgaltcag ttgggaaac ggaatcgtc acaaggca ttgatcatc tggtaattat ctgggaatcc aattgatgt gaagtgttgg tcccaacaca ttttctcat tctgttggg aataatcag tcatcatc catgaggtat gtaacatc ctccctc tttatggc atctatgca gtaagtccat caatgtcalt gtctgtcat tagcacagat aatggggcag tactttgt cctgtgtct gctgtatccga atgagtatg ctttaaata ccgaccata atcatgaag tcttgggaga acgtgagat accgttggc aacttcat accgttggc ttctgtgtca ggcgtcttc tagcatatc ttcttatt tggctcaca acaggacca gaagaagcaaa tggcaccitg aacttaagcc tactacagac tgttagaggg cagtgttgc aaatttga taaagaggg ggaagaaatg gaacaggggc ctgacattt ataaacaac aaatgtcat ggttagcatt ttacatc tagcatatc ctccctc aggtgtatc atgacatga ttggtatcag ccgaacalg agaggggaga ctaactcaag acaatctca gcagagagca tccgtgttgg atatgggct gggttagagg cggagaggag ccaagaact aaagtgaat aatacatg aacttgggg caagacatgt ctatggtagc tgaagccaaac acgttagt tccgtttaa ggttcatg gaagaagta tagctttggc ttgagtatg ctataaaa tcaagagct t MSFLDSSIM ITSQILFFGF GWLFFMRQLF KDYEIRQYVV QVFSVTF AF SCTMFELIIF P EILGVLNSS RYFHWKMNLC VILLVFMV PFYIGYFVS NIRLLHKQRL LFSCLL WLTF MYFFWKLGDP FPILSPKHGI LSIEQLISRV GVIGVTLMAL LSGFGA VNCV YTYMSYFLRN VTDTDLALE RRLQLTMDMI ISKKKRMAMA RRTMFQKGEV HNKPSGFWM KSVTTSAG SENLTIQOE VDALELSRQ LFL ETADLYA TKERIEYSKT FKGYFNFLG YFYSYCVVWK IFMATINIVF DRVGKTDPTV RGIEITVNYL GIQFDVKFWS QHISFLVGH IIVTSIRGLL ITLTKFFYAI SSSKSSNVIV LLLAQIMGY FVSSVLLIRM SMPLEYRTII TEVLGELQFN FYHRWFDVIF LVSA LSSILF LYLAKQAPE KQMAP aggctgcagg cgggcgtgctg tggagcgggg ggcgcggccg cgcgcagag atgtgacgtg ggcgcgaagg cagcttggagc gtcggcgtc cgggcggccg ggggtcgaat gtctgtgca tcaagagaga agatgagagc tcaacagggt ctaaccttcc tcttctt cgtatcacc tgggtggct ctgaacacgc cagcacatcc cgaaggctgtg ggcgtgacct cctccctcag tacgttccc tgtgcgaact ggaagccatc tggggcatgt tgggtgaggg ggtggccgggg ggcggcgccc tgalcacact gctctgtatg ctatctcc tgggtggct ggccttcatc aaggagagag agagagagag cctgttgggc ctacatttc tgttctctc tgggaacctt ggccttctt ggtgtgact tgccttcat atccagaggg acgagagacat ctgtctgtc cgccgcttcc tcttggggcgt ccttcttct ctcttctt ccttcttct gtaacagagca tgggcgtgtg ggaaggctgtg ggggcatggc acggggccccc cgggcgtggca gctgttgggc ctggcgctgt gcttgaigt ggttgcaggt atcatcgtg tggagtggt ggtgtctatcc ggtgtgtg agacaaaggcc agccttgcgc taccagagcca tgggactttgt galtggccctc	A	Homo sapiens
597	190595	G Protein- Coupled Receptor SH120	NP_057418.1	agcaccitggg aaaaaggcaga ccgtgttgagg gggcccttggg occcagcgtg ctgtggccct ggggagtaggg aagtgaggagc aggagccctc ctacaccc ggcagtggt tctgacga ctcagcagc atgataact cccaataact atttttggg ttgggtggc ttttctcat ggcgaattg tttaagact atgagatag tcaatagt gtacaggtga tcttccgt gaegtgttga tttcttga ccaagtgtga gctcalcalt ttgaatct taggagtaatt gaatagcagc tccgttaatt ttacatggaa aatgaaccgt tgcgtaalt tgcgtatcct gggtttcag gtgcctttt acattggcga ttatttgg agcaatatac gatactatga taacaacga ctgctttt ccigtcttt atggctgac ttatgtatt tctcttggaa actaggagat cccitttcca ttccagccc aatacatggg atctatcca tagaacaact catcagccgg gtgtgttga ttgggtgtgac tctatggct ctcttctg gatttggggc tgcacatgc ccatcact acatgtctta ctctcaggg aatgtgacgt acacagatalt tctagccctt gaaaggcagc tgcigcaaac catggatagt atcataagca aaagaagaaag gatggcaatg gcacggagaa caatgttcca gaagggggaa gtgcataaca aaocatcagg ttctgggga atgataaaa gtgttacc ttacatca ggaagtgaat atctactct tatcaacag gaagtgtgag ctgtggaaaga attaagcagg cagcttttc tggaaacagc tgaataltat gctaccaagg agagaataga atactocaaa accitcaagg ggaaatatt taatttctt ggttacttt tctatttga ctgtgttgg aaattttca tggtaacct caatattgt ttgaltcag ttgggaaac ggaatcgtc acaaggca ttgatcatc tggtaattat ctgggaatcc aattgatgt gaagtgttgg tcccaacaca ttttctcat tctgttggg aataatcag tcatcatc catgaggtat gtaacatc ctccctc tttatggc atctatgca gtaagtccat caatgtcalt gtctgtcat tagcacagat aatggggcag tactttgt cctgtgtct gctgtatccga atgagtatg ctttaaata ccgaccata atcatgaag tcttgggaga acgtgagat accgttggc aacttcat accgttggc ttctgtgtca ggcgtcttc tagcatatc ttcttatt tggctcaca acaggacca gaagaagcaaa tggcaccitg aacttaagcc tactacagac tgttagaggg cagtgttgc aaatttga taaagaggg ggaagaaatg gaacaggggc ctgacattt ataaacaac aaatgtcat ggttagcatt ttacatc tagcatatc ctccctc aggtgtatc atgacatga ttggtatcag ccgaacalg agaggggaga ctaactcaag acaatctca gcagagagca tccgtgttgg atatgggct gggttagagg cggagaggag ccaagaact aaagtgaat aatacatg aacttgggg caagacatgt ctatggtagc tgaagccaaac acgttagt tccgtttaa ggttcatg gaagaagta tagctttggc ttgagtatg ctataaaa tcaagagct t MSFLDSSIM ITSQILFFGF GWLFFMRQLF KDYEIRQYVV QVFSVTF AF SCTMFELIIF P EILGVLNSS RYFHWKMNLC VILLVFMV PFYIGYFVS NIRLLHKQRL LFSCLL WLTF MYFFWKLGDP FPILSPKHGI LSIEQLISRV GVIGVTLMAL LSGFGA VNCV YTYMSYFLRN VTDTDLALE RRLQLTMDMI ISKKKRMAMA RRTMFQKGEV HNKPSGFWM KSVTTSAG SENLTIQOE VDALELSRQ LFL ETADLYA TKERIEYSKT FKGYFNFLG YFYSYCVVWK IFMATINIVF DRVGKTDPTV RGIEITVNYL GIQFDVKFWS QHISFLVGH IIVTSIRGLL ITLTKFFYAI SSSKSSNVIV LLLAQIMGY FVSSVLLIRM SMPLEYRTII TEVLGELQFN FYHRWFDVIF LVSA LSSILF LYLAKQAPE KQMAP aggctgcagg cgggcgtgctg tggagcgggg ggcgcggccg cgcgcagag atgtgacgtg ggcgcgaagg cagcttggagc gtcggcgtc cgggcggccg ggggtcgaat gtctgtgca tcaagagaga agatgagagc tcaacagggt ctaaccttcc tcttctt cgtatcacc tgggtggct ctgaacacgc cagcacatcc cgaaggctgtg ggcgtgacct cctccctcag tacgttccc tgtgcgaact ggaagccatc tggggcatgt tgggtgaggg ggtggccgggg ggcggcgccc tgalcacact gctctgtatg ctatctcc tgggtggct ggccttcatc aaggagagag agagagagag cctgttgggc ctacatttc tgttctctc tgggaacctt ggccttctt ggtgtgact tgccttcat atccagaggg acgagagacat ctgtctgtc cgccgcttcc tcttggggcgt ccttcttct ctcttctt ccttcttct gtaacagagca tgggcgtgtg ggaaggctgtg ggggcatggc acggggccccc cgggcgtggca gctgttgggc ctggcgctgt gcttgaigt ggttgcaggt atcatcgtg tggagtggt ggtgtctatcc ggtgtgtg agacaaaggcc agccttgcgc taccagagcca tgggactttgt galtggccctc	P	Homo sapiens
598	190599	G Protein- Coupled Receptor GPCR5B	NM_016235	aggctgcagg cgggcgtgctg tggagcgggg ggcgcggccg cgcgcagag atgtgacgtg ggcgcgaagg cagcttggagc gtcggcgtc cgggcggccg ggggtcgaat gtctgtgca tcaagagaga agatgagagc tcaacagggt ctaaccttcc tcttctt cgtatcacc tgggtggct ctgaacacgc cagcacatcc cgaaggctgtg ggcgtgacct cctccctcag tacgttccc tgtgcgaact ggaagccatc tggggcatgt tgggtgaggg ggtggccgggg ggcggcgccc tgalcacact gctctgtatg ctatctcc tgggtggct ggccttcatc aaggagagag agagagagag cctgttgggc ctacatttc tgttctctc tgggaacctt ggccttctt ggtgtgact tgccttcat atccagaggg acgagagacat ctgtctgtc cgccgcttcc tcttggggcgt ccttcttct ctcttctt ccttcttct gtaacagagca tgggcgtgtg ggaaggctgtg ggggcatggc acggggccccc cgggcgtggca gctgttgggc ctggcgctgt gcttgaigt ggttgcaggt atcatcgtg tggagtggt ggtgtctatcc ggtgtgtg agacaaaggcc agccttgcgc taccagagcca tgggactttgt galtggccctc	A	Homo sapiens

599	190599	G Protein-Coupled Receptor GPCR5B	NP_057319.1	<p>atciacgaca tggtaictgct tgggtgaccc ctaggggctgg ccccttcac tctgtggcg aagtccaaga ggggggaaagt gaaaggggcc ttctctca tcaagccct cctctctgtg ctaicgggg tgggtctgtg gacccalgac cttctggca atgtcaagct gcaagcaggggg gtagcctggg acgacccccc cttggccalc agctggggcg ccaaggggcg ggtcttcgtc atctccacg ccatccctga gatacctgc accctctgc cagccctgca ggggaagacacg ocaactact tctgacacgic gcaagccacgg atggcggggga cggccttcga ggggggagc cagctggccg gggccctatg ggggaacacg gctctctcca ggggaagaca caatggcagt ctcggaaacag caaggatccc caacggcagc ttggggaaaaa gacccagggg cagctggggg aaaaagccca ggcctccgtg tagaagcaac gttgatacag caactgagat gggccgtgctg ctaacggggc ggaacacccc aactgctccg ccaaagcaca cagggaaagaca ccttgggga aagacttaaa gttccagagga acagaaatt ccttaaccga ttggctccc tggctgtgic ttcttgagg ggaataccgg taacagtgg cgaacacggc cgtctcacag ccaaggaaatt gggaaatcc agccaagggg attctgta aatggaca ctaggaact gaaagctaa caaggagc cggccctcc ctagccacac acacagggacac gtaataccag accaacctca atcccgcaa actaaagcaa agctaaagc aaaaagatg aggtctcacg gaaatgtggg ctgggaagac gtttcatcc tctgggggga gaaacgaac aaattcacg ctagggggcc agacgggggt ggttggggg tgggggggct ccaactat cactctcc cagcaagcgg tggacccag gtagccctc ggaagatgac gttgctgtg ggacaatgg ggaactggc accgctgc ctaggggtt gacattca gggggggcag gaaagctaa gtaggtgtgg gtgggattcc aaggtgaggg ccaactgaa cgtgggggga gctttatag cagtaaggggt ggaagggaacc tggcaggtg caaaagagag gctctctggg gtaggaagt accatcacat ttgggaaggg atcaaacct ttgctctta tgggggctct gcttaagt ctaaggtag aacacagggc cggccctc cctgtaggag ccaagaaat atttgggtt gggggcagcag tcccttcc ccttgatc ctagccgt tctacact accgggtgat ctaaaatcc tctccaat ttatccct attactca agagctccaa tgggggtccc agctgaagc cctccgggga ggcagggggg aaggcagggca ccaaggcaggg ttcccgga tgaigtcaa tagcaggggt tcaagggttc ccaagagat gcaagagatga cctctgcgc cctcacagc agtgacaccc cgggtccctt ccgtgtcat ggtgaaat cctggatga atggatcaca tgaagggttc ttgtgttc tggagggtt ggggggaaat ttgttgggt tttctgcag gttccatga aacagccct ttcaagccc attgttgc tcaigtctc catctgct gagaagatca ttcttgggt atttagcat tcaacatc cggccattca aagcccccatt gttctgcga cgtttggcc agcataacct ctggcagcga tcaaaagcag agttttaacc tgaaggcag gaaagtataa atgaagggtg gttctctgc agatactca atactacat tcttttct ataaactac ccataagcc ttacccctta aaaaaaatg aaaaaggta gtttggggg gcccgggggag gacggagcc ttataagcc agtagctc agcagat gttcaata acccttgat attctcaa aaaaaaaa aaaaaaaa MFVASEKMR AHQVLTFLL FVTSVASEN ASTRGCGLD LLPQYVSLCD P Homo sapiens LDAIWGIVE AVAGAGALIT LLLMLLLVR LPFIKEKEK SPVGLHFLFL LGTGLFGLT FAFIQDET ICSVRRFLWG VLFALCFSL LSQA WVRRL VRHGTGPAGW QLVGLALCLM LVQVIAVEW LVLTVLDRTR PACAYEPMDF VMALIYDMVL LVVTLGLALF TCGKFKRWK LNGAFLLITA FLSVLIWVAW MTMYLFGNVK LQQGDWNDP TLAITLAASG WVFVIFHAIP EIHCTLLPAL QENTPNYFDT SQPRMRETAF EEDVQLPRAY MENKAFSMD E HNAALRTAGF PNGSLGKRPS GSLGKRPSAP FRSNVYQTE MAVVLNGGTI PTAPPSHTGR HLW A Homo sapiens ggtggctga ggtgggggga gggccggccc ctagcagtcg gaggcagacg caggcaggg gctccggag gcaaggctcg ctggaaaggaa cgtctctgc ttgctctac acttcgcga atgtccga gttactcac atagcatatt ggtatataa aatgaaatgc aagggaacca aataacata attgaaggca gtaaaagtga aatlaaag gaaagatcac agtcaaggaa gaccactgg agaggacaga aatgaaggca gtttttatc atgtgattt cagcaggtct tctgataat taacaaaaa tatgactgct ctcctcag agaaactgic ttuicagiac cagtiacgic aaacaaacca gcccctagac gtaactaia tctattcti gatacacti ggggaaat tataaatat ccttaacta ggaatgaga gaaaaaacac cttgcaaa ttatggaat attttgcat ttactagca ttcttgatc</p>
600	190602	G Protein-Coupled Receptor GPCR150	NM_014373	

601	190602	G Protein-Coupled Receptor GPCR150	NP_055188.1	<p>ttttactttt ggtaaacatt tccattalat tgaatttcag ggattttgta ctttaagca taaggttcac taatataccac atctgctcat tactcaaat taattocctt actatagctt tttagcatta tccagtttc ctgacagctt gtaagatgta ttgctcgaat ttcttaaaa caaccaagct ttactttaag tgcataaaat taattttt cttacagta atttaattt ggaatttcagt ccttgcttat gttttgggag accagcccal claccaaagc cigaaggcac agaatgctta ttctgctcac tgcctttctt atgcagagcat tcazagtttac tggctgcat ttttcatggt gatgatttta ttgttagctt tcaaacctg ttgggaagaa gttactact tggtaacagg taccagggc taccagggata acttccata tgaatgaac tatcttalat ttcttttt catccacc cagttatact gtagactta aaaaatttt cttatccaag ctcatgtct gttttccag taccgggta ccaattggta tacttcaggt aatcattgt ttacttaag ttactatcc agcatatatt gtagatgaata ttccctgggt atacttggt aalagttttc tcatgctac agtgatgtgg tttaattgg acaagcttaa ttataaagac attggattac ctttggatcc atttgtaac tgggaagctt gcttcatcc acttaaat cctaacttg agcaaatgta aagccctata tcaataaga tttgtaata ttataatta aaggttacag ctgtcataag atcataatt tatgaacaga aagaaactcag gacatatata aaaaataaci gaactaaac aactttggcc cccgactga tagcaattca gaaatgctt ttgaagggc talaccaggt ataaatagt gttttattt aaaaacaaaa laattccaag aagttttat agttaticag ggacaciatat ttacaaat tactttgta ttacacaaaa aagtgataag agttaacatt tggctatact gatgtttggt ttacacaaa aaactactgg atgcacaaactg ttatglaaat ctgagatttc actgacaact ttaagatc aacctaaaca ttittatata atgtcaaat gtaagcaaga aaaaaaaa</p>	P	Homo sapiens
602	190623	Melanopsin	AF147788	<p>MTALSSNCFS FQYQLRQTNQ PLDVNYLLFL ILGKILLNI LTLGMRKNT CQNFMEYFCI SLAFVDLLL VNISILYFR DFVLLSIRFT KYHICLFTQI ISFTYGLHY PVFLTACIDY CLNFSKTTKL SFKCQKLFYF FTVILWISV LAYVLGDPAL YQSLKAQNAY SRHCPFYVSI QSYWLSFFMV MILFVAFITC WEEVTTLVQA IRITSYMNET ILYFPFSSH S YTVRSKKIF LSKLIVCFLS TWLPFVLLQV IIVLLKVQIP AYIEMNIPWL YFVNSFLIAT VYWFNCHKLN LKDIGLPLDP FVNWKCCFIP LTPNLEQIE KPISIMIC</p> <p>ggtttccacc catagacca cagcttccag ccaggacagc ttgggacagca gtagtcatag gtagacatctg gaggctgaagg cttccacgc gggccctctg gctccallgg atggcaggctt cggggcaggac gaggctgcccag gtgggtgtgg gtagcagaagg tttggagcaa gaggcccatg ggggagctoc ccagtgaggac agaaagcacag gtagtgaggggg gttggggccct gtaggagatct cagtgtaacc cgaacggct gcagtgcaag gcccatgggag aagagacatt gtcagggtgag acgtgggctt ccaaaaggcc caggctgggg gttccagct ctcgaltt lccctgaggt gctcttga ggcctgtggc accctgggta tgggattcc cggctcagt gtccactga caagcattc tccctgggac tctgtgctt gctccalcac ctgcacccic tcttaalag cagggttgag agtgggggctt acattgaatg ggaagtgtg ttgactcaga attgctcca gctgtgagg aatgttaaac cctacatia aaacgcaagc agctggcatt gaggctaggg acagaaagaa aagccggccc ctagcccca cccggccc aggggtggct ctgtgagcca aagccctgaa gtgggaagagc ctaggagagg aaggcagctg agccalgggg tggcagctgc aggaaagata gctcccgc ctagtgaggc tgcctccact tctctgctc aaaaagggg cttccagggaga actgtttgta aagactgggg gaaactctgg aagaggggggt alactctgt ccactccagg gctccaaac tccacgact gttccagggac alggccccca cttaagatga ccgtgcccgg gtggggctcc cctaaacgca gctctgtgt gcaaggccag gggcaggccc cctccctggga agccgtgtgt ttagcttccc tcttccag cctctgctc cctcttaag acaggggcag gggcaggccc ggggtccctt ccactctga calccagca actggatca ggcctggcagg cctgggtgtg ttccgtgggac tctccaaata aggttttaaa aaactttat actttaaaa ttctgccc gcccagtggt tccagctgt aatccgtgca cttggggag ccgaggtgggg tgggatccct gagggtcagg gttcgaagct agccgtgga acatgggtgaa cttccgtgca cttccgtct tctaaat acaaaatta gcccgggtgt gtgggaggt cctgtaacc cagctactgg gggaggtcag gcaaggagat tgggtggacc tgggagggcgg aagtgcaat gagggtgagat tgcacattg cactccaggc tgggtgacag agcaagactg tctcaaaaaa aataaaaaa aaaaaataa actttctat caaaaaaca gcaaaaggcc cctgtgtgac tgaatcacc ctactctctt gttctccalc ttgtgaaagg</p>	A	Homo sapiens

[illegible]

[illegible]

604	190627	G Protein- Coupled Receptor GPR41 & GPR42	NM_005304	GTWAAWVPL PTVDPDHAH YTLGTVILLV GLTGMLGNLT VIYTCRSRS LRTPANMFII NLAVSDELM SFTQAPVFFTS SLYKQWLFGE TGCEFYAFCC ALFGISSMIT LTAIALDRYL VITRPLATFG VASKRRAAFV LLGVWLYALA WSLPPFFGWS AYVPEGLLTS CSWDYMSFTP AVRAYTMLLC CFVFFLPLLI IYCYIFIR AIRETRALQ TFGACKNGE SLWQRQLQS ECKMAKIMLL VLLFVLSWA PYSVALVAF AGYAHVLTPY MSSVPAVIAK ASAIHNPIY AIHPKYRVA IAQLPLCLGV LLGVSRRHSR PYPYSRSTHR SLTSHTSNL SWISIRRRQE SLGSESEVGW THMEAAAVWG AAQQANGRSL YQGLEDLEA KAPPRPQGHE AETPGKTKGL IPSQDPRM	sapiens
				atggaacag gccccagaca gctacttc tccggcaatc actggtcgt ctctcggg taccttca ctctcgtt ggggtccccc ctcaactgc tggcccttgg ggtctcgg ggaagactgc agcccccgc ggtggccggg gacgtctcc tgcacact gaaccctcg gaactcgtcc tgcgtctgt cctgcttc cgtatgggg aggcagccaa tggcatgcac tggccctcg ccctactct ctgccatc tctgattca tctttcac ccaactat ctaccgcc tctctggc agctgtgagc atggaact tcttgagt ggcacacca ctgtgtga aaacccggcc gaagctgggg caggcaggtc tgggtgagt ggcctgcgg ctgtggct ctgtcactc cagcgtgtc tacgtcalag aattcagg ggaalctcc cacagccagg gaccaaagg gaactgtac ctgtgattcc ggaaggaaca gctagcatc ctctgccgc tgcggctggg gattggctgtg gtctcttg tggcccgct gattcatcc agtactgt acagccgct ggtgtggatc ctggcagag gggggcagca ccggccggcag aggaagggtg cgggctgtt ggcggccag ctgtcaact tctgtctg ctgggcc taccaggtt ccatgtgt gggtatalc tgcgtgaaa gcccgccatg gaggatcac gtagcttc tcaacacct gaactcgt gtcgacct tgttacta ctctctcc tccgggtcc aagccgact tcatgactc ctgaggagt tgttgggt ctggggccag tggcagagg agagcatc gtagctgaag gagaagaagg gaggaggag gacagagg gaccagacc cigaagaaa gaccagtga cactcagg gctgtgaac tgggtggcag gtagctgt cigaagcta g MDTGPQDSYF SGNHWFVFSV YLLTFLVGLP LNLALVVFV GKLQRRPVAV DVLNLTAS DLLLLLFLPF RMVEAANGMH WPLFILCPL SGFIFFITI LTALFLAAS IERFLVAHP LWYKTRPLG QAGLVSVACW LLASAHCSVV YVIEFSGDIS HSQGTNGTCY LEFRKDQLAI LLPVRLEMAV VLFVPLIIT SYCYSRLVWI LGRGGSHRRQ RRVAGLLAAT LLNFLVFCGP YNVSHVVGYI CGESPAWRIY VILLSTLNSC VDPFVYFSS SGFQADFHLEL LRRLCGLWGQ WQESSMELK EQKGEEQRA DRPAERKTS HSQGCCTGGQ VACAES caagactgt cctctgoc gactaaca gattggagcc atggcttgg agcagacca gtaacagat tattatag aggaaaatga atgaatggc actatgact acagtcaata tgaactgac tgaataag aagatgtcag agaattgca aaatttcc tctcttatt cctcaata gtttgcga ttgactgc aggcactcc atggtagtgg caattatgc clattacaag aaacagagaa ccaaaacaga tgtatcatc ctgaattgg ctgtagcaga ttactctt ctatcact tgcctttg ggcgttaat gcatltcag gggtgggttt agggaaaata atgtgcaaaa taactcagc ctgtacaca claaatttg tcttggaat gcatlttctg gctgtatca gcatagacag atattggca gaactaaag tccagacca atcagagggt ggaataacct gctggatcat ctgttctgt gtctggatgg ctgccattt gctgagcata cccagctgg ttattatc agtaaatgac agtaaggt gcaatccat ttcccccgc taccagga calcaatga agcatgatt caatgtcag agatctgcat tggatttga ttacccttc tattatgg ggtgtgtc ttatcagag caaggacat catgaagatg ccaaacatta aaatatctg accctaaa gttctgtca cagtcgtat agtttcat gtactcaac tgcctataa catgtcaag tctgocgag ccatagat catctact ctatcaca gctgcaacal gagcaaacg atgacalcg ccatcaagt cacagaaagc atcgactct ttacagctg cctcaacca atctttag	Homo sapiens
605	190627	G Protein- Coupled Receptor GPR41 & GPR42	NP_005295.1		Homo sapiens
606	190701	C-C Chemokine Receptor 11	NM_016557		Homo sapiens

607	190701	C-C Chemokine Receptor 11	NP_057641.1	<p>ttttatggg agcatcttc aaaaactac ttatgaaagt ggccaagaaa tatgggtctt ggagaaagaca gagacaagt gtggaggagt ttcttttga ttctgagggt cctacagagc caacaggtac tttagctt taaggtttaa acigtcttgc ctttgcgtg galacatag aatgagtct tccctcaaa taacaatct gcatattct gaactcaba tctacagcgc cgttggttga actataaa aagaatgggt tgggggaaagg ggagaaata aagccaaga agaggaaca agataaaa tttatgaaac algaaatla aaatgacaa tataggaaa taatgtaac aggcataagt gaataacact ctgtgtaac gaagaaagagc tttgtgtgga taatttga tcttgggtgc agtgggtctt atacaatct acacaagtga taatgagca cagaaatata tacacactt giacaant caatttctg gttttgatc tatgtataa tggaaacatt ggagaaaaat gggtgaaggg taccagggac cactttgac cacttttga acttctgtg aattlaat aatttcaaa taacaagt taataaaaa cccactatg tataatllag gccactaaa acagattat aaaagggtc atgtaaaag gcatttaa ttattttaa ttactaaa gaaggtatc cctgcataat ttatgtact gaataagtat gcagcagaac tcaactatc ttittctg ttittttaa attgtaat aattttaa aatccactc ctcaaaaa gcaataaaaa aaaaacaac tataaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaa</p>	P	Homo sapiens
608	190705	G Protein-Coupled Receptor SALPR	NM_016568	<p>MALEQNQSTD YYEENEMNG TYDYSQYELI CIKEDVREFA KVFLPVFLTI VFVIGLAGNS MVVAIYAYYK KQRTKTDVYI LNLAVADLLL LFTLPFWAVN AVHGWVLGKI MCKITSALYT LNFVSGMQFL ACISIDRYVA VTKVPSQSGV GKPCWIIICF VWMAAILSI POLVFTYVND NARCIPIFR YLGTSMKALI QMLEICIGFV VPFLIMGVY FITARTLMKM PNKISRPLK VLLTVIVFI VTQLPYNIVK FORAIDIYS LITSCNMSKR MDIAIQVTES IALFHSCLNP IL YVFMGASF KNYVMKVAKK YGSWRRQRQS VEEFPDSEG PTEPTSTFSI</p> <p>gatttgggga gtagcgc agtgcocag tgaocggg acacggagag gggaagcttg cgttgtatc aaggacatag ggactccgag ctggcttga gaaoccttg agcogagtg ctggcttac gggtcgtact cctcaactt gctocaaagc agcgcctgag ctaactctt ggtccagagg cgttcgtctgc ggcocaggag ccgtctaga cccagtctt gggtctctc ttcagttagct gctttgaaag ctccacgca cgttcccgag gctagccggc caaaaaat gggtgtaaac gtttatctt aggctctgtc cccagaaac tgaactagag gtaactcgc atgcagagg ccgtagcagc cactgtagcc accatgaata aggcagcagg cgggggacaa ctgacagaaac tcttctgt ctgtggaggg ctctggaggg cggccaacac gagtggtaac ggctcgtctgc agcttccgga ctgtgttgg gggtctgggg ggagtgtgc gggaaggcgcgc cggcagggac atccccgggg cagcgcgcgg ggagagagcgc cggacacaga ggccccgggg cggattctca tcaagcgtgt gtagtggggg gtagtgcgcgc tgggggttggc gggaacactg ctgggtctct accatgaata gagcagcag gggtcggcgca agtctctat caactctc gtcacaacc tgggcctgac ggactttcag ttgtgtctca ccttgcctt ctgggtgggt gggaagcgtc ttacttcaa atggcccttc ggcaaggcca tgttaagat cgtgtccatg gtagcgtcca tgaacatgta cggcagcgtg ttcttctca ctggcagtag tgtgacgcgc taccattgg tggccctggc tctgaagagc caocgggaoc gagggacaggg ccgggggggac tgcctgggoc gggaagctgg ggacagcgtgc tgccttccgg ocaaggcgcgt gtagtgggg alctggggctt tggccgctt gggtcgtctg cccagtgcca ttcttccac cagcgtcaag gtagtggggc gggaagcgtg cctgggtgtc ttccgggaca agttgtctgg ccggcagcagg cagtctggc tggggctctca ccaactgca gggtgtgtc tgggtcttct gcttccgctg gggtcaltta tctgtgtca cctgtgtcgt gtagcgtca tggccgacgc cggcgcgggg gggaagcagaag ggaggggcgc ggtagccgga ggagcggcga ccggagagcag cggcccgaga cgttcgagga cgttcgagga tcaacaatc agtgaacatc gttgtctgt ccttctct gttgtgtcgt ccaaacagg cgtcaccac cttggagcat cttacagt tcaacgtgggt ggcctttagc cagggagatt tctgtgtcca gggtatagcgt ttccgtgtga gctgtgtctt agcgtcactcc aacagcgtgc tcaacccgt ccttactgct ctcgtgtcgc gtaggttccg caaggcgtc aagagcctgc tggggcgtat cgtgtctct tggatcaca gcatggcgc cttcagcgc actacaagc ggagcagcga ggatcagggg cttgcagggcc cggcgccgc ccaacgggoc</p>	A	Homo sapiens

609	190705	G Protein- Coupled Receptor SALPR	NP_057652.1	<p>ggcggagccgg accgtctctia claccacct ggcgtctgagg tciacagcgg gggggcgctac gaccctctgc ccagcagctc tgcctctga cgcaggctc agggccaggg cgcgcgcgc ggcgaaggag ggcctccocg ggcgtaag aggtgaaagg algaaaggagg gctgggg</p> <p>MQMADAATIA TMNKAAGGDK LAELFSLVPD LLEAANTSNG ASLQLPDLWW ELGLELPDGA PGHPGSGG AESADTEARV RILISVVYVW VCALGLAGNL LVLYLMKSMQ GWKSSINLF VTNLALTDFQ FVLTLFWAV ENALDFKWPFF GKAMKIVSM VTSMNMYASV FFLTAMSVTR YHSVASALKS HRTRGHGRGD CCGRSLGDSC CFSAKALCVW IWALAALASL PSAFSTTVK VMGEELCLVR FPDKLLGRDR QFWLGLYHSQ KVLGFLVPL GHILCYLLL VRFIADRRRA GTKGGAAVAG GRPTGASARR LSKVTKSVTI VLSFFLCWL PNQALTWTWSI LIKFNAPFS QEYFLCQVYA FVSVCLAHNSCLNPVLYC LVRREFRKAL KSLWRJASP SITSMRPFTA TTKPEHEDQG LQAPAPPHAA AEPDLLYYPP GVVYSGGRY DLLPSSAY</p>	P	Homo sapiens
610	190711	G Protein- Coupled Receptor GPR85 (SREB2)	NM_018970	<p>ggcagaggga ttactgtc gtctcaagat cagattatta cgttagagaa gatttttatt ttgtttica ttacagatt attataaagc aaaaagcatg cagaaagaaaga agcagacgti ttacattggg aattatgaa agcggtctg ctagttttg gtagggagaaac lggggaagttg ttgctaaaa ttatataca cctccaaaa caaaactct cggaaagggt aaataaagaa aatgcatgat tciaggaggca ttcctaaagca cccagctgc aggtttttg gttctgtgagg tatcatocga ccgtttggagc tggtaggggc ttactgagag ctccattct ggaaaggccti acaaagactga ggaataatcag acgtggaalc accgggaacg gttcctttgc agcacagaaag caatctct cccacalcic gcatactg alggcaaac aagtggaaga aagagggagag calgactgca gatcagatca gttctcttg tggattatat tticagaaa algtaaggat ctatctttc ctgtctta latatagatc algagactg acigaggctg latcctalc ctccatccat ctatggcgaa ctatagccat gcagctgaca acattttgca aaatctcag cctctacag cttttgaa actgactcc ttgggttica taalaggagat cagcggtggg ggcacactcc tgaicccat ttgtctagg aagataaaga cttgtcagag agcaccttac tacttccgt tggatcttg cgttcagat atccicagat cgtcaattg ttccactt gtttcaact cgtcaaaa tggctcctacc tggactialg ggaactgac ttgcaagtg atggccttic tgggggggttt gtccctgttc cacactgtt tcatgtctt ctgcalcagt gtccagat actagctat cggccatcac cgtctctata caaaaggct gacctttgg acgtgtctg cgtgtctg tatgtgtgg actgtctg tggccalggc attccccg gtttagacg tgggcactia ctatcatt agggagggag alcaatgac ctccaacac cgtctctica gggctaaiga ttcttagga ttatgtctg ttctgtct catctocia gccacacagc ttgtctacct caagctgata tttttctgcc acgactgaa gaaaatgaa cagttccagt ttgtagcagc agtcagccag aactgtgacti ttatgtctc tggagccagt gggccaggcag ctgccaatg gctagcaggga ttgggaaggg gttccacacc acccaactg ctgggcatca ggcaaatgc aaacaccaca ggcagaaagaa ggtctattgt ctagacagag ttcaaatgg agaaagaaat cagcaagaaig ttctatataa tgaatttct gtttctaac ttgtggggcc cctacctgt ggcctgtat tggagaggti ttgcaagagg gctgtgata ccaggggggat ttcaacagc tgcgtctg algagtttg occaagcag ttcaatct ttgtctgca ttttcaaa cagggggagc aggcgtgt tcaagcaaac cctctttac tgcagaaaat ccaagttacc aagggaacct tactgtgta tatggggag catctgataa tcttagcct tggaaaact aactctct gctgaagcaat tggggccat agccatatt tgaagaaagaa ttcaagaaig gaalcaagcag tttaaggat ttggcaaca ttctgcagc ttgcaalag ttacccata atccattt aaatctcaga gttatccigc tgaactgcag caaagggttg taatagaa ggggactgaaac cactgoccta agttcttta tgggttcaaa aactagataa tgaagtagc aggtgtcag latcaggtc aatgtctg tatgtccta calagtaaaa aacatcaaaa aacattagc attggacatc ttaataaatt aagtgtacat gaggtaaatg tggataaa aactaat ttgaattg agacttaaa acatttata ctacttgt ttggcaagaa claaaatt tggggactia aggtactgta atccataaa gacgtgcca ttgaattatg gaaatcaca cttaaaaac cgccctgttaa gttctggggg gcatccaaa gcatgtatt ggttccaat agagtttact tttttgat taatacatg ctatttctaa</p>	A	Homo sapiens

ataccacttt cctcatctac tagtaagati gctagcaattg aacigtatua tgggttttt gttgatttgg tataaagttt ttccaattca
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 gctgcaagg ggaagaccaca gacttagat gacatctgc acaatttgg aagcatttat tctactgaag gcaactgtt gttatctt
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 cttagtaat tggctcagaa tttaataa aacatcacac tttaattgg agcatagtag catagaaat tgggggtcta aatatacaac
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 gttttgtga agtttttt ttnttggta ttgataat aagattaga atataaac acagaattcc atattgctat agtactctg
 taaagaaat atcaataaa ataggaataa taaataatg aatgtttca atgttaaaa aaaaaaaa aaaa
 MANYSHAADN ILQNLPLTA FLKLTSLGFI IGVSVVGNNLL ISILLVKDKT
 LHRAPYYFL DLCCSDILRS AICPFVFN S VKNGSTWYTG TLTKCKVIAFL
 GVLSCFHTAF MLFCISVTRY LAIAHHRFYT KRLTFWTCLA VICMVWTLVS
 AMAPPVLVDV GTYSFIREED QCTFQHSFR ANDSLGFMLL LALLATQL
 VYLKLIFFVH DRRKMKPVQF VAAVSONWTF HGPASGQAA ANWLAGFGRG
 PTPPTLLGIR QNANTTGRRR LLVLDEFKME KRISRMFYIM TELFLTLWGP
 YLVACYWRVF ARGPVVPGGF LTAAVWMSFA QAGINPFVCI FSNRELRRCF
 STTLLYCRKS RLPREPYCVI
 aggttagtgg agctcttc cagctgtcc atcggtctcc actgggggt gctgtccaag tgcctgggt acagaaggc
 cgcattcc-gac cctttgtgt actcttact ggcacacag tacggcaaa gctgcaagg gattctgaac aggtctcgc
 acagagctc catcactcc tctggctca caggagctc tcaagcag aacattctg cgggtctga g
 MNSWDAGLAG LLVGTMGVSL LSNALVLLCL LHSADIRRA PALFTLNLTC
 GNLLCTVWNM PLTLAGVVAR RQAGDRLCR LAAFLDTFLA ANSMLSMAAL
 SIDRWVAVVF PLSYRAKMR LRDAAALMVAYT WLHALTFPA ALALSWLGFH
 QLYASCTLCS RRPDERLRA VFTGAFHALS FLSFVVLCC TYLKVARFHC
 KRUDVITMQT LVLVDLHPS VRERCLEEQK RRRQRATKKI STFIGTFLVC
 FAPYVITRLV ELFSTVPIGS HWGVLSKCLA YSKAADPFV YSLLRHQYRK
 SCKEILNRLL HRRSIHSSGL TGDSSHQNIL PVSE
 atggccaaca ctacggaga gctgaggag gtagcggcg cttgtccoc accgtccga tcaattatg tgaagctgtg
 actgtggga ctgattatg gctgtagctt ggggggtaac gccattgtt cctgtctgt gctcaaggag cgtgccctg
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 gccggctgtca tctgcatggc ctggaccctg tctgtggcca tggccttcc accgtctt gacgtgggca cctacaagt
 tattggggag gagggaccagt gcatcttga gcatgctac ttcaaggcca atgacagct ggggttcatg ctatgttgg ctgtgtcat

Homo sapiens

P

611 190711 G Protein-Coupled Receptor GPR85 (SREB2) NP_061843.1

Homo sapiens

A

612 190725 G Protein-Coupled Receptor GPR26 LG93120

Homo sapiens

P

613 190725 G Protein-Coupled Receptor GPR26 LR26

Homo sapiens

A

614 190741 Sreb3 NM_018969

617	190742	G Protein- Coupled Receptor H7TBA62	ENSP00000201 359		P	Homo sapiens
					<p> MPTLNTSASP PTFFWANASG GSVLSADDAP MPVKFLALRL MVALAYGLVG AIGLLGNLAV LWVLSNCARR APGPPSDTFV FNIALADLGL ALTLPFWAAE SALDFHWPEF GALCKMVLTA TVLNVAYSIF LITALSVARY WVVAMAAGPG THLSLFWARI ATLAVWAAAA LVTVPTAVFG VEVEVCGVRL CLLRFPSRYW LGAYQLQRVV LAFMVPLGVI TTSYLLLLAF LQRRQRRQD SRVVARSVRI LVASFFLCWF PNHVVTLWGV LVKFDLVPWN STFYTIQTIVV FVVTTCLAHS NSCLNPVLYC LLRREPRQAL AGTFRDLRLR LWPQGGGVWVQ QVALVKQ </p>	
618	190743	G Protein- Coupled Receptor GPCR5D	NM_018654		A	Homo sapiens
					<p> algtlaaagg actgcatcga gtccacigga gaclatluc tictctgla cgcgcaggggg ccailggcgca tcaatcigga gtccctggcc alactggcca tctgtgtgac aattctgta ccttagcat tctctctc catgcaag catcaagact gcatcgacg gaatgtctc cccacccagc tctctctc cctgagtgic ctggggctct tgggactgc ttgtcttc atcaatcagc tcaatcaaa aacggccccc gtacgtact ttctctgg gggtctctt gctctcgt tctatgct cttagctcat gctccaatc tagtgaagt ggttcggggg tgtgtctct tctctggac gaacaatcgt tgcattgta tgggtgag tctgttgcaa atcaatiant ccactgggla tgtgacttc atcatgacca gaggtatgat gttgtgtaat algaacacct gcaagctcaa tgtggacttt gtgtactct tggctatgt cccttctctg atggcctca catctcgt cttcaagcc acctctgtg gcccgtgtga gaac'tgggaag cagcatggaa ggctcatct taccactgt cttctcca tcaatcgt gggtgtgtg alctolcag tcttgagagg caaccocagc ttccagcgac agccccagtg ggacgacccg gtctgtctgca tgtctctgg caccaaagg tgggttttc tgc'tc'tgta catgtccct gagctctgca tttctacag atcgtgtaga caggagtgcc ctttaacagg caatgctcgc cccgtcacag cctaacaca cagcttccaa g'tggagaacc aggagctctc cagagcccca gacagt'gatg g'agc'lgagg g'galtgagga ttaatctcat algtgactcc catcagccg cagactgttg atccacaca agagtg'ttic atcccacagg ctactaag cccccaggcaa </p>	

619	190743	G Protein- Coupled Receptor GPCR5D	NP_061124.1	gatcaggag gagtataa MYKDCIESTG DYFLLCD AEG PWGIIIESLA ILGIVVTILL LLAFLLMRK IQDCSQWNVL PTQLLLSV LGLFGLAF AF IELNQQTAP VRYFLFGVLF ALCFSCLLAH ASNLVKLV RG CVFSFWTTL CIAIGCSLLQ IIAITEYVTL IMTRGMMFVN MTPCQLNVDF VLLVYVLF L MALTFFVSKA TFCGPCENWK QHGRLLFITV LFSIIIWVWV ISMLLRGNPQ FQRPQWDDP VVCIALVTNA WVFLLYIVP ELCILYRSCR QECPLQGNAC PVTAYQHSFQ VENQELSRAR DSDGAEEDVA LTSYGTPIQP QTVDPTQECF IPQAKLSPPQ DAGGV cggggcaggig ggggaacctcc cigaagagig ccttggtcac agcaccttg aagacagcca tiggccatlgg ggaaccaacc agagcctggc ciggagacca ggaaggccal ccaaaagcc ttgttgatg gccggggact ggcctcttc cgttccacg gggcttgggc caggggccal gtccacctg gctgcagcca aggcctcaac cccctgact acaacctgig tgaacctct ggggcgtggg gcalgctct ggaaggccgig gctggggcgg gcatgtcac cacgttgg caccatca tcttggtggc cagcctccc ttgtgcagg acacaagaa acggagcctg cgggggacc aggtattctt cctctgggg accctgggccc tctctgctt cgtgttggc tgtgtgtga agcccgactt ctcacactg ggcctgggc gcttctctt tgggggtcig ttgccatct gtctcttg tctggggct cagctcttg cctcaactt cctggcccgg aagaaccacg gggcccgggg cgggtgac ttacgtgg cctctgct gaccttgta gaggicalca tcaatacga gtggctgac alcacctgg ttggggcag tggcgaggc ggcctcagg gcaacagcag cgcaggcctgg gcccgtggc cccctggc cgtcgccaac atggacttg tcaggcact catctacgc atgtctgic tgtgtgggc cttctgggg gcttggccc cctgtgtgg ccgclacaag cgctggcga agcatgggt cttgtgc ctcaccacag ccaactcctg tgcctatgg gtgggtgga tegtcatgta lactacgc aacaagcag acaacgtcc caoctgggat gaaccacgc tggccalcgc cctggccc aalgccggg cctctgct ctctacgc atcccgagg tctccagg gaccaagtc agccagagc aagctacca ggggggacg taaccaccc ggggggtgg clatgagacc atctgaaag agcagaagg tcaagagcag ttgtgtgaga acaaggcct ttccatggat gagccgttg cagctaaag gcccgtgta ccatacag ggtacatgg gtagctgctg accatgtgt acaagccac tgaatggcag cgtatgcaca aagttccgic cgaaggagct laccgacalca tctccacag ggcacccgc aacagccagg tgaatggcag tgcacactg accctgggg cgaagacat gtactggcc cagaagccac aggcggccac accgcgaaa gacggcaaga actctcagg cttagaaac ccttcaac ccttcaag gggactgagt cagcgggtggc gaggagggc gggcggattt ggggagggcc ctgagacctt gggcccgggc aagggaactt caggctctt cctccccctg gcaaggccagc aacatggcc ccagatcigg aaggccctc ctcttgcca gtgttgggt ggggtgctag ggtgtccca cccactcic agtgtttg ggtcgaggga gccaaccca ggcctctgccc aggatcactt cggcggtcac actccagcca aatgtgttc tcgggtgtt ggcggggcag cgcctatgt tcttggaga ttctgcaac ctcaagagac ttccagggc ctagggcctg gactgtgc ctctgagg aacaagggtg cctaataat acattctgct ttatataa aaaaaaaa aaaa MGTPPEPGLG ARMAIHKALV MCLGLPLFLF PGAWAQGHVP PGCSQGLNPL YYNLCDRSGA WGIVLEAVAG AGIVTFTVLT ILVASLPFV QDTKKRSLLG TQVFFLLGTL GLFCLVFACV VKPDFSTCAS RRFLFGVLFA ICFSCLAHV FALNFLARKN HGPRGWVIFT VALLTLVEV IINTEWLIIT LVRSGEGGP QGNSSAGWAV ASPCAVANMD FVMALIVVML LLLGAF LGAW PALCGRYKRW RKHG VFVLLT TATSVAIWVW WIVMYTYGNK QHNSPTWDDP TLAJALAANA WAFVLFYVTP EVSQVTKSSP EQSYQGDMPY TRGVSYETIL KEQKGQSMFV ENKAFSMDPEP VAAKRPVSPY SGYNGQLLTS VYQPTMALM HKVPSEGAY IILPRATANS QVMGSANSTL RAEDMYSAQS HQAATPPKDG KNSQVFRNPY VWD	P	Homo sapiens
620	190744	G Protein- Coupled Receptor GPCR5C	NM_018653	 cggggcaggig ggggaacctcc cigaagagig ccttggtcac agcaccttg aagacagcca tiggccatlgg ggaaccaacc agagcctggc ciggagacca ggaaggccal ccaaaagcc ttgttgatg gccggggact ggcctcttc cgttccacg gggcttgggc caggggccal gtccacctg gctgcagcca aggcctcaac cccctgact acaacctgig tgaacctct ggggcgtggg gcalgctct ggaaggccgig gctggggcgg gcatgtcac cacgttgg caccatca tcttggtggc cagcctccc ttgtgcagg acacaagaa acggagcctg cgggggacc aggtattctt cctctgggg accctgggccc tctctgctt cgtgttggc tgtgtgtga agcccgactt ctcacactg ggcctgggc gcttctctt tgggggtcig ttgccatct gtctcttg tctggggct cagctcttg cctcaactt cctggcccgg aagaaccacg gggcccgggg cgggtgac ttacgtgg cctctgct gaccttgta gaggicalca tcaatacga gtggctgac alcacctgg ttggggcag tggcgaggc ggcctcagg gcaacagcag cgcaggcctgg gcccgtggc cccctggc cgtcgccaac atggacttg tcaggcact catctacgc atgtctgic tgtgtgggc cttctgggg gcttggccc cctgtgtgg ccgclacaag cgctggcga agcatgggt cttgtgc ctcaccacag ccaactcctg tgcctatgg gtgggtgga tegtcatgta lactacgc aacaagcag acaacgtcc caoctgggat gaaccacgc tggccalcgc cctggccc aalgccggg cctctgct ctctacgc atcccgagg tctccagg gaccaagtc agccagagc aagctacca ggggggacg taaccaccc ggggggtgg clatgagacc atctgaaag agcagaagg tcaagagcag ttgtgtgaga acaaggcct ttccatggat gagccgttg cagctaaag gcccgtgta ccatacag ggtacatgg gtagctgctg accatgtgt acaagccac tgaatggcag cgtatgcaca aagttccgic cgaaggagct laccgacalca tctccacag ggcacccgc aacagccagg tgaatggcag tgcacactg accctgggg cgaagacat gtactggcc cagaagccac aggcggccac accgcgaaa gacggcaaga actctcagg cttagaaac ccttcaac ccttcaag gggactgagt cagcgggtggc gaggagggc gggcggattt ggggagggcc ctgagacctt gggcccgggc aagggaactt caggctctt cctccccctg gcaaggccagc aacatggcc ccagatcigg aaggccctc ctcttgcca gtgttgggt ggggtgctag ggtgtccca cccactcic agtgtttg ggtcgaggga gccaaccca ggcctctgccc aggatcactt cggcggtcac actccagcca aatgtgttc tcgggtgtt ggcggggcag cgcctatgt tcttggaga ttctgcaac ctcaagagac ttccagggc ctagggcctg gactgtgc ctctgagg aacaagggtg cctaataat acattctgct ttatataa aaaaaaaa aaaa MGTPPEPGLG ARMAIHKALV MCLGLPLFLF PGAWAQGHVP PGCSQGLNPL YYNLCDRSGA WGIVLEAVAG AGIVTFTVLT ILVASLPFV QDTKKRSLLG TQVFFLLGTL GLFCLVFACV VKPDFSTCAS RRFLFGVLFA ICFSCLAHV FALNFLARKN HGPRGWVIFT VALLTLVEV IINTEWLIIT LVRSGEGGP QGNSSAGWAV ASPCAVANMD FVMALIVVML LLLGAF LGAW PALCGRYKRW RKHG VFVLLT TATSVAIWVW WIVMYTYGNK QHNSPTWDDP TLAJALAANA WAFVLFYVTP EVSQVTKSSP EQSYQGDMPY TRGVSYETIL KEQKGQSMFV ENKAFSMDPEP VAAKRPVSPY SGYNGQLLTS VYQPTMALM HKVPSEGAY IILPRATANS QVMGSANSTL RAEDMYSAQS HQAATPPKDG KNSQVFRNPY VWD	A	Homo sapiens
621	190744	G Protein- Coupled Receptor GPCR5C	NP_061123.2	 cggggcaggig ggggaacctcc cigaagagig ccttggtcac agcaccttg aagacagcca tiggccatlgg ggaaccaacc agagcctggc ciggagacca ggaaggccal ccaaaagcc ttgttgatg gccggggact ggcctcttc cgttccacg gggcttgggc caggggccal gtccacctg gctgcagcca aggcctcaac cccctgact acaacctgig tgaacctct ggggcgtggg gcalgctct ggaaggccgig gctggggcgg gcatgtcac cacgttgg caccatca tcttggtggc cagcctccc ttgtgcagg acacaagaa acggagcctg cgggggacc aggtattctt cctctgggg accctgggccc tctctgctt cgtgttggc tgtgtgtga agcccgactt ctcacactg ggcctgggc gcttctctt tgggggtcig ttgccatct gtctcttg tctggggct cagctcttg cctcaactt cctggcccgg aagaaccacg gggcccgggg cgggtgac ttacgtgg cctctgct gaccttgta gaggicalca tcaatacga gtggctgac alcacctgg ttggggcag tggcgaggc ggcctcagg gcaacagcag cgcaggcctgg gcccgtggc cccctggc cgtcgccaac atggacttg tcaggcact catctacgc atgtctgic tgtgtgggc cttctgggg gcttggccc cctgtgtgg ccgclacaag cgctggcga agcatgggt cttgtgc ctcaccacag ccaactcctg tgcctatgg gtgggtgga tegtcatgta lactacgc aacaagcag acaacgtcc caoctgggat gaaccacgc tggccalcgc cctggccc aalgccggg cctctgct ctctacgc atcccgagg tctccagg gaccaagtc agccagagc aagctacca ggggggacg taaccaccc ggggggtgg clatgagacc atctgaaag agcagaagg tcaagagcag ttgtgtgaga acaaggcct ttccatggat gagccgttg cagctaaag gcccgtgta ccatacag ggtacatgg gtagctgctg accatgtgt acaagccac tgaatggcag cgtatgcaca aagttccgic cgaaggagct laccgacalca tctccacag ggcacccgc aacagccagg tgaatggcag tgcacactg accctgggg cgaagacat gtactggcc cagaagccac aggcggccac accgcgaaa gacggcaaga actctcagg cttagaaac ccttcaac ccttcaag gggactgagt cagcgggtggc gaggagggc gggcggattt ggggagggcc ctgagacctt gggcccgggc aagggaactt caggctctt cctccccctg gcaaggccagc aacatggcc ccagatcigg aaggccctc ctcttgcca gtgttgggt ggggtgctag ggtgtccca cccactcic agtgtttg ggtcgaggga gccaaccca ggcctctgccc aggatcactt cggcggtcac actccagcca aatgtgttc tcgggtgtt ggcggggcag cgcctatgt tcttggaga ttctgcaac ctcaagagac ttccagggc ctagggcctg gactgtgc ctctgagg aacaagggtg cctaataat acattctgct ttatataa aaaaaaaa aaaa MGTPPEPGLG ARMAIHKALV MCLGLPLFLF PGAWAQGHVP PGCSQGLNPL YYNLCDRSGA WGIVLEAVAG AGIVTFTVLT ILVASLPFV QDTKKRSLLG TQVFFLLGTL GLFCLVFACV VKPDFSTCAS RRFLFGVLFA ICFSCLAHV FALNFLARKN HGPRGWVIFT VALLTLVEV IINTEWLIIT LVRSGEGGP QGNSSAGWAV ASPCAVANMD FVMALIVVML LLLGAF LGAW PALCGRYKRW RKHG VFVLLT TATSVAIWVW WIVMYTYGNK QHNSPTWDDP TLAJALAANA WAFVLFYVTP EVSQVTKSSP EQSYQGDMPY TRGVSYETIL KEQKGQSMFV ENKAFSMDPEP VAAKRPVSPY SGYNGQLLTS VYQPTMALM HKVPSEGAY IILPRATANS QVMGSANSTL RAEDMYSAQS HQAATPPKDG KNSQVFRNPY VWD	P	Homo sapiens

628	190774	Histamine H4 Receptor	NM_021624	LAGRSPAYQ GPPESSLS	RAALRPPRPA RGSRLRSDSL DSRLSILPPL RPRLPGGKAA LAPALAVGQF AACWLPYGCA CLAPAARAAE AEAAVTWVAY SAFAAHFPLY GLLQRPVRLA LGRLSRRALP GPVRACTPQA WHPRALLQCL QRPPEGPAVG PSEAPEQITE LAGRSPAYQ GPPESSLS	A	Homo sapiens
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629	190774	Histamine H4 Receptor	NP_067637.2	<p>acattttatt agtttgggta ttttttggcc tttaaaaca ttttttttgg agatggggggg cttctcttctg tgcaccagca ggaagtgagcagt ggcagtgctct cagctcactg cagccctgac tgcctaggct ccagcaatct tcttacgca gctctccagag tagctggggac cgaggagact tgcaccacag cccacciaaa aatttttaa atgttgctt tctttgaagt gtctcttgcc tgtcttttgc acaaaattc atttttca tagttaatt catcttcg gtaagatttt atgttggttt tttaatac ttgacagct ttacaccgt ttggttaatt calgtttct agaaactta aaccttaac ttcaaacatt aaaaatacaag tcttttaagt acatgagtg tgaataatgt acataaatgt tatalacact tatgctttac attaaagtc aatatagagaa atacalgttt aacattcaat aataatttta aaaaattgag aataaaactc tcaataatgc aaaaaaaa aaaaaaaa</p> <p>MPDNTNSTNL SLSTRVTLAF FMSLVAFAM LGNALVLAF VVDKNLRRHS P Homo sapiens</p> <p>SYFFLNLAIS DFFVGVISIP LYPHTLFEW DFGKEICVFW LTIDYLLCTA SVYNVLISY</p> <p>DRYLSVSNV SVYRQHTGVL KIVLMVAWV VLAFLVNGPM ILVSESWKDE</p> <p>GSECEPGFFS EWWYLAITSF LEFVIPVLV AYFNMNIYWS LWKRDHLSRC</p> <p>QSHPGLTAVS SNICGHSFRG RLSSRRSLA STEVPASFHS ERQRRKSSLM</p> <p>FSSRTKMNSN TIASKMGFS QSDSVALHQR EHVELLRRARR LAKSLAILLG</p> <p>VFAVCWAPYS LFTIVLSFYS SATGPKSVWY RIAFWLQWFN SFVNPLLYPL</p> <p>CHKRFQKAFI KIFCIKKQPL PSQHSRSVSS</p> <p>cccagaacta gaaciacca gagcaagacc acagctggg agagctocag gagcagacaa gagggagaca aattctctc A Homo sapiens</p> <p>tcccacagaa catctctgga gggacacctg ctgtatctgc tgggtatctc ttcttgata tcatcatta tctgttatt gcagtcacct</p> <p>ttgtctcgg ggtcttgggc aacgggcttg tgaatctgct ggcctggattc cggatgacac acacagtcac cacatcagt</p> <p>tactgaacc tggccgtggc tgaatctgt ttacctoca ctggccatt ctatcagct aggaagaca tgggaggaca ttggccttc</p> <p>ggctggcttc tggcaaat cgtcttaacc atagtgagaca tcaactgt cggzaagctc ttctctatgc cctcatctgc tctggaccgc</p> <p>tgtgttgcc tctctatcc agctctgacc cagaaccacc gcacccgag cctggccag cctggccag aaggttgatca ttggccctg</p> <p>gggtatgct ctgtctoca catggcagt tatcattgt gtgactacag taocitgaa aacggggaca gtagccitga ctttaact</p> <p>ttggccctgg accaagacc claaaagag gagaaatgg tgaatggc ggcgttgcca ttttgacag gagaggcaic atocggctca</p> <p>tcaatggctt cagcgacacc algtccatgc ttgtctgag ttatggctt atggcacca agatccacaa gcaaggcttg attaaigtcca</p> <p>gtctgacctt agggctctc tcttttgc cagcagacct tttctctgc tgggtcccat atcaggtggt ggccttata gccacagta</p> <p>gaaatccgtga gtaatgcaa ggcagtaca aagaaatgg taatgagtg gagtgaca gggccctggc ctcttcaac</p> <p>agctgctca acccatgct ctatcttc atggggccag acttccggga gaggtctgac cagcccttc ccgccaagt</p> <p>ggagaggcc ctgaccgag actcaacca aaccagtgac acagclacca atttactt acccttga acccttga gaggtggagt</p> <p>tacaggcaaa gtagaggag agctggggga cacttctgag ctccagctc cagctctgc tcaactgag ttaggctgag</p> <p>cacaggcatt tctgtctat ttaggatta cccactcatc agaaaaaa aaaaagcct ttgtgtccc gatttgggg agaaaaaca galatgagt t</p> <p>METNSSLPNTN ISGTPAVSA GYLFLDIITY LVFAVTVFLG VLGNGLVWV P Homo sapiens</p> <p>AGFRMTHVT TISYLNLAVA DFCFTSTLPF FMVRKAMGGH WPFGWFLCKF</p> <p>VFTIVDNLF GSVFLIALIA LDRCVCVLHP VWTQNHRTVS LAKKVIIGPW</p> <p>VMALLTLPV IIRVTVPGK TGTVACTFNF SPWTNDPKER INVAVAMLTV</p> <p>RGIRFIIGF SAPMSIVAVS YGLIATKHK QGLKSSRPL RVLSFVAADF FLCWSPYQVV</p> <p>ALIATVRIRE LLOQMYKEIG IAVDVTSLA FFNSCLNPML YVFMGQDFRE</p> <p>RLIHALPASL ERALTEDSTQ TSDTATNSTL PSAEVELQAK</p> <p>alggaacca actctccat tctctgaal gaaactgag aggtgtctcc tgaactgtct ggcacacag ttctgtgat ctctcatg A Homo sapiens</p> <p>ctagttccag gtagtcactt tgtctcggg gtcttgggca atgggtgtgt gatctgggg gcttgggtcc gtagtcacg</p>
630	190823	Formyl Peptide Receptor 1 (FPR1)	NM_002029	
631	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	
632	190824	Formyl Peptide Receptor-like 2	NM_002030	

(FPRL2)

633	190824	Formyl Peptide Receptor-like 2 (FPRL2)	NP_002021.2	METNFSIPLN ETEEVLPEPA GHTVLWIFSL LVHGVTFVFG VLGNGLVIWV AGFRMTRTVN TICVNLNLA LDFSAILPF RMVSVAMREK WPFASFCLKL VHVMDINLF VSVYITIIA LDRICVLPHP AWAQNHRIMS LAKRVMTGLW IFTIVLTPN FIFWTITST NGDYICINF AFWGDTA VER LNVTIMAKV FLHFUGF TVPMSIITVC YGIIAAKIHR NHMIKSSRPL RVFAAVVASF FICWFPYELI GILMAVWLKE MLLNGKYKII LVLINPTSSL AFFNSCLNPI LYVFMGRNRFQ ERLIRSLPTS LERALTEVPD SAQTSNTHTT SASPPEETEL QAM	P	Homo sapiens
634	190948	EMR2 Hormone Receptor	NM_013447	cggagagcggg acagccctgt cccactcat cttcccttg cgtctcttg ccggcagctca gcttggaaoca lgggagggccg cgtcttct gctttctg catcttgt cgtgttgt cgtgttgt cgtccgggg cgtgaaocca gggactccagg gggctgtgccc gggtgtggcc lcaaggactcc tctgtgtgtca atggccaccg cgtctgtgct aatccagggt tcaagctctt ttttgagtc atccacccc ocaaggagac ttgtgtgacg atcaacagagt gtgcacact gtctgaaagt tcaatcggtgaa aatctggga cgtctgtgaa acagaggggtgt gctacagctg cgtgtgtgagc ccaaggatag agccgttct lggggcgaana acattcaaga atgagaggtgt gaaacaggtgt caagatgtgt acgaaatgtca gcaagaaocca aggtctgtgaa aaggtctacgg caccgtgct aaacacctg gcaagctacac gtgtccagtgt cgtccgtggct lcaagctcaaa actgtgagag acgaaagctgt gcaagaggt gaaatgagc acctccggac aaacacctg ccacagctcc accactggc tcaacaactg ggggcaagctat cagltgccc ggcccccggg cttggcaaccg atccgggggt ccccaatgg ccaaaaact accgtctgtgt aagatgtgtg cgtgtgtgagc lccggggcagc atcagltgtga cagctccacc gtctgtgtca acaccgtggg tcatagagc tgcctgtgccc gcccagggctg gaaagccaga cagggaaatcc ggaalaaoca aagggacact gtctgtgtgag atagtactt ctcacactgg accccggccc ctgtgtgtgcca cagccaagct cttccagat tcttgagaaa agtccaggtgt cttgggcaag actacaagcc aggtctgtgccc aalaacacca tccagagagcat cttaagggc cttgtgtgagc tctgtgtgagc cctgtgtgtgac cttgtgtgtgac ctttccatg acagcagcagc tttgtgtgtcca gtcacctgt gtaaggtgtgt tcaaggtgtgt tcaaggtgtgt gtaaggtgtgt ctttccatg ggctgtgtgaa cttcagttat cctgtcagga cagaaatgtt cctgtgtgtgt cgtgtgtgtgt cgtgtgtgtgt gtcactgtg agacagatc aggcagagat gcaagctgtgt cagagctgtgt cagagctgtgt cagagctgtgt cagagctgtgt cgtgtgtgtgt gtctccatt ccaaggggtgt gcaaggtgt gctgtgtgtgt cctgtgtgtgt cgtgtgtgtgt gtaagcagagat cttgtgtgtgt agacacacca ggggtgtgtgt cagggaggggt ccccatct gctgtgtgtgt gtaagctgtgt cctgtgtgtgt caacaagac acccaaac lcaagctccc agtaacct accgtgtgt accgtgtgt accgtgtgt accgtgtgt accgtgtgt accgtgtgt ctgtgtgtgtgt gtaaggtgtgt gtaaggtgtgt accgtgtgtgt accgtgtgtgt accgtgtgtgt accgtgtgtgt ctgtgtgtgtgt accgtgtgtgt accgtgtgtgt accgtgtgtgt accgtgtgtgt accgtgtgtgt accgtgtgtgt gtcatcaact acatgggggt gtaaggtgtgt cgtgtgtgtgt cctgtgtgtgt gtaaggtgtgt accgtgtgtgt	A	Homo sapiens

635	190948	EMR2 Hormone Receptor	NP_038475.1	<p>agcaacctcac tgcacatgca gctcgcgtc tgcctcttcc tggccacct cctctctctc ggggcaattg atcaaacggg acaaaggcg cigtgctcca tcatgcocgg taacctgac tatcttacc tggccacctt caoctggatg ctgctggagg cccttacct ctctcact gcaaggaaacc tgaagggtgt caactactca agcalcaaca gattcatgaa gaagctcalg ttccctggg gctacggagt cccagctgtg acagtgggcca ttctggcagc ctccaggcct cactctct gtaattag ttctttct ccgtcgtgg ctcaacacg aaaaaggalt tatatggggc ttcttggag cgtctggcg cactctct gtaattag ttctttct gggtactctc tggatttga azaacagact ctctccctc aalagtgaag tgcatacct ccggaacaca aggtatgtgg catttaaacg gacagctcag cgttcatc tggcctgac gttgtgtctg ggtgtgtctg aggtgggtcc ggtcgtccgg gctatggctt acctcttacc catcaaac agctgacgg gttgtctcat ctctcgtt tactcgtcc tcaagccagca gggtccgggag caatagggca aalggtccaa agggatcagg aaatgaaaaa ctgactctga gattgcacaca ctctccagca gtgttaaggc tgcacctcc aaocccagca cggtaacta gaaaatctt ctgaataaga tcttccctt tgcocgggtgg aaaaatgaa caatcttga gccatcaga ggggaaagaa agactttgt tctgtgtt tcaagaaat caccatgta gcaatagaa ggatgtatg gaaggcgtc tgggcalca attcctgcag aaocgggaaa tcttccagc cctgcaatgt gctcatcaa ctctcagcat atggacggcc agctggtggc calacttgg tcaactctga gcaaatatt tatgaagcta tagaagga agactcttt cacagctct cctcttaca aagactctc caaatcttaa aatgaagcag gaaaacacag ctaagggag tttcalaccg acaacatct aagggactag aatgttaca ccagatctg gattctaa tttttgt tttttgt tgttctag ttctacgggt ttgattatt agtaltgaa aaaaatgaa ttactacac atagatcaag agagacacgg cctcgtctt catggagct ttgggggaaa atgaagtggc tcttcagct agagtgtact cagaagccga aattctaga aatcagggtt ctactgctag gcaatgtag tataaactat ttataaca cttctctt tcatctcac</p>	P	Homo sapiens
636	190955	Leukotriene B4 Receptor BLT1	NM_000752	<p>MGGRVFLVFL AFCVWLTLPG AFTQDSRGCA RWCPQDSSCV NATACRCNPG FSSFEIIT PMETCDINE CATLSKVS CG KFSDCWNTG SYDCVCSGY EPVSGAKTFK NESENTQDV DECQNPRLC KSYGTCVNTL GSYTCQCLPG FKLKPEDPKL CTDVNECTSG QNPCHSTHC LNNVGSYQCR CRPGWQPIPG SPNGPNTVC EDVDECSGQ HQCDSTVCF NTVGSYSCR RFGWKPRHGI PNNQKDTVCE DMTFTWTP PGVHSQTLR FFDKVQDLGR DYKPLANN IQSILQALDE LLEAPGDLET LPRLQQHCVA SHLLDGLD V LRGLSKNLSN GLLNFSYPAG TELSLEVQKQ VDRSVTLRQ QAVMQLDWNQ AQKSGDPGPS VVGLVSIPIGM GKLLAEAPLV LEPEKQMLLH ETHQGLLQDG SPILLSDVIS AFLSNNDTQN LSSPVTFHS HRSVIPRQKV LCVFWEHGQN GCGHWATTGC STIGTRDTST ICRCTHLSF AVLMAHYDVQ EEDPVLTVIT YMGLSVSLLC LLLAALTFLL CKAIQNTSTS LHLQLSLCLF LAHLLF VAI DQTHKVLCS IIAGTLHYLY LATFTWMLLE ALYLFTARN LTVVNYSSIN RFMKKLMFPV GYGPAVTVA ISAA SRPHLY GTPSRCWLQP EKGFVWGFLG PVCAIFS VNL VLFL VTL WIL KNRLSSLNSE VSTLRNTRML AFKATAQLFI LGCTWCLGIL QVGPAA RVMA YLFTIINSLQ GVFEFLVYCL LSQQVREQYG KWSKGIRKLK TESEMH TLSS SAKADTSKPS TVN</p> <p>gcaattctt cacaaccgt ggggicagga agoccttctt gaactctgac ttacttctt gctgcgggtt ctgcccatt ttctatac ctctgacagc tgcaggtga tctctgctt ggttttctc caagcagaac aagtgggggc tctggaagg ttaaggacc tcagtggcca caattatct ttgcatctt cctgagaagt gagaattgaa agggaaagcag gaaggcccat ggtcagattg aagggaaggac ttttagttt ttttgaat ggaagtctgc tctgctcagc aggtggagat gcaagtgggc gactcagct cactgagcc tcaacttctt ggggtacat gattctctg cctcagctc ccaagttagct gagactacag gcaatgcca</p>	A	Homo sapiens

637	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	<p> ctacaccag ctacttttgg taatttttgg agagagcgggg tttaaccalg ttggccaggc tggctcaaa ctgctaacat caagtgatct gctccctca gctcccaaa gctctggggat taccggatg aaacacaca accctgacag aaatttttgg ttlttggcttt tggaggggac ttcaagggaaa gggagacalc ctctgtccag gaaacggggta agggggacat ttctgcatlg ctgggttccc ctctggccag ggttggggcag agggcaltcat gttcttgctc cctcactct gctctcag ctacggctgg cagctcggcc tcaactttgt gttcttaazg tggaaactgaa tggtagctgt ggaagagatag gaaagagggta gttgccaatct ccttggccag atcataalc caagactcag agggtaacca catgggcaag caaagggtag gttcttgggg aaggggggag taattggcat tctgtgtgat accaagggtg ccatttggat ttggctct accaaggga atggtagaatt ggttggacta atggtaacca gtoccttaa gtaagggggag gaaagggggt gctgggaagt gggcccttc ccacaccta gatacagtt tgaacttgaag ccaaggacag agtgctcccc ccttgggcat ttactgat gctccttta aatcagalg ttatlaac caaaccaagg accagggact agtcacagct ccaactaca ctctctat atcttaaac aagggggaa aaacacaaa agatacagc allgtaggct ccaatctgag ccaatttccc ttcttggct accatact ctctctat algalacct tcaacttt gttcaattat ccagctaga cctgcatct gaggccacac ctagctct cactccac accctctt cctctcac tgccttcc tggctcttc tcaatggcc ccactctaa ggaagtctcc tggcttgg gttggctgg aaaaagact atcccttc ctgggtag gggggggtag ggggttccag ccaacctca ggaagtggc tcttctgt cctctgt gttgggtct cctctggct gatttggcaa acagcaacca gacttggggc caggcttgg gcaagtgggac agatccaggg ataggctaca ccaacctggc ctggacctgg gattgggcat agcttccac cagtctctgg caaaggctgt aagctctcc gacggccalg aacatacat ctctggcagc accccctca ctagggttag agttcatct tctgttggct atcatctgg tgcagtggg gctggctgg gggcttccg gcaacagctt tgggttgg agtatctga aagggttag gaaagctct gtcactggc tgggttggct gaaactggcc ctggccggac tggctggat ctctcact cctcttcc ttactctt gggcccaagg accggagt ttggagggc tgggttggc ctgttggact atgtctggc agtcaagcag taccggcag tctgttctat caggggcag agtctaggcc gctcagggc ggttggccgc ccttttgg ccaaggaa gct acggcaacca gctgagggcc gggggggct gggcaggcalt tgggttggct ccttttgg gggccacacc gttctggct accgacag agtgcttgg aaaaaggaa tgggttgg ctcccgccg taocccagg aaggggccagc gggcttccat ctacttgg aggtctggcac gggcttctc ctggcttcc tgggttgg gggcagctac tgggacag tgggttggct accagggccgg cgtctccggc gcaaggccg caggggccg ctgggttgg tcaatctt gacttccgg gcttctggc tggccctacca cgttgggtgac ctgggttgg cggggccgg gctggccggc caggggccgg ggttggggct cgttgggggag cgggttggcc tggccggcaa cgttggctat gcatctggct tctggagcag cagggttggac ccttggct accggttggc cgggttggcggc ctgttggct cgggttggct gggcttggc gccaagctg tggagggggc ggggttccag ggttccagca cgggttggcgg gggcaggctg gggcaggccg ctaggggcgg cccggctt ctggggccgg gcttccga ggaactcact gcttccagc ctctcaagt aaacggaact gactaggct ggttgggagga gggggcactt cctctgggca gaaagctagc tctggagcag ttacgtact ggaagggttgg caggggggctt ggggggggtt ggggggggtt ggggggggtt ggggggggtt ggggggggtt ggggggggtt ggaagggttgg tggagggcagg tggggggcgg gttggggggct gcttccagc ggggttccaca gggcagctta accataaaa ctgaagctg aa </p>	P	Homo sapiens
638	191039	Trace Amine	AF380185	<p> MNTTSSAAPP SLGVEFISLL AIILLSVAL VGLPGNSFVV WSILKRMQKR SVTALMVLNL ALADLAVLLT APFHLFLAQ GTWSFGLAGC RLCHYVCGVS MYASVLLITA MSLDRSLAVA RPFVSQKLRT KAMARRVLG IWVLSFLAT PVLAYRTVWP WKTNMSLCFP RYPSEGHRAF HLFEAVTGF LLPFLAVVAS YSDIGRRLOA RFRRSRRITG RLVVILITF AAFWLPYHVV NLAEAGRALA GQAAAGLGVG KRSLARNVL IALAFSSV NPVL YACAGG GLLRAGVGF VAKLLEGTGS EASSTRGGS LGQTARSGPA ALEGPSESL TASSPLKLINE LN atgagctt ttggccaa tataattat atttctgtg tgaanaaaa ctgggtcaaa gatgtccgg cttcccgta cagtttaag </p>	A	Homo

[illegible]

641	191132	G Protein- Coupled Receptor 88 (GPR88)	NP_071332.1	<p>goccgaaagc atttggagc gccaccigtat tttaacccti ttttctctg tttagagga atccaaagt caaaacacca gtagactigaa gaaactigcaa actggcggti taaataacc ggtaattta ttocacaca gttgtttt gaaaagagc ttacataig taaacoccti tccacttca tggcttata taagaagcg ctggagtg ctgaagaa aggaataaac attgaagaag gaaaacaata ttagaagaat atttagaaa gaaacctg tttagatg ctctctac cattagt ttgtatata cctggggca gtagagcoct aggtgtgcc accagtatga gtggccatla ggaacctcaag ccccttatic ttaaaaggg tttaataaa gtcttctca aatgggtag aatcttagcc agtgaagaaa aaaaattt ttgtctcti tttttgca ctctaaagc tgaataagg cgttagaggt tatagtgaaa atttocaat ttgaatatt agtgcagag ccagcacctg aatttgaaa acaataagg tgaattatc ttttaggtac cgtttcacat tttctatagc atgcacacti gtttctacc cacttttga accaattat ttgcctatg aatgtatg cagctttgaa cacttctac tgtaatgtt gctaaagaaga ataatgtcti cgttttct ttaacattt aaaaatc atgcacatg aataattaa acacataaa taccatgact gcalagctaa tatagctgc tatgcatgc tctatagtc tagaactat tgggcatg gctatctgaa gcgataacocg ttagacaagg alatttact tcttcagc accagaaga atggcoctca attttgaa aagapacaca gtagacactc tggctaccta gagttctcc tgtctgacc aattatag aaggtccca gttgggact tatctacaa gtagaatc agtcaagaag gatcaaat algttggct cagcaagcc agctgtctc tttaggggt taaacaagcc acaggtaga aagcaacact gttttatgt agttcalata lattaccg acatttaaca tcaatatt atattgtgaa gtaggtatata taaactcagt calatatagt gaacagttca aatgggaaag tgttcaaaa calattatt gaggttgc atattact ttgtttact aaatttact agaaatatt gaaatgcaaa atgtgtgaa atcacttat caaattaaa tgggaagaaa gtaatttaa taattttaa taatcatg tcaagctct gactactac cactcaaat ctgggccaac acagocctcag ttaactgaa aatcaggaa caaaaccagc tigtctgt tcaagctctg gcaagctctg gcaatticag ccaggacatt aggaocacti gttgacatc tgaataatta tgggaagttg gaaactgtaa ggaatacaaa tatgtcac accaacaat agctgtact ttatatt atcccttg tgcagcac atttctct tactaagct ttatctgt cactttcc ttgattcaaa tattaaagt cagaaaaaaa aaaaaaaa aaaaaaaa aaaaaa</p> <p>MTNSSSTSTS STTGSSLL CEEESWAGR RIPVSLLYSG LAIGGTLANG MVYLVSSFR KLQTSNAFI VNGCAADLSV CALWMPQEA V LGLLPTGSAE PPADWDGAGG SYRLRGGLL GLGLTVSLLS HCLVALNRYL LITRAPATYQ ALYQRRHTAG MLALSWALAL GLVLLPPWA PRGAAPPRI HYPALLAAAA LLAQTALLH CYLGIVRRVR VSVKRVSVLN FHLLHQLPGC AAAAAAFPGA QHAPGPGGAA HPAQAQLPP ALHPRRAQRR LSGLSVLLLC CVFLATQPL VWVSLASGFS LPVPWGVHAA SWLLCCALSA LNPLLYTWRN BEFRSRSV LPGVGDAAA AVAATVPV SQAQLGTRAA GQHW</p> <p>ggctgcaata actactacti actggatata ttaaacctt ccagaatcaa cagtatcag gtaaccaaca agaaatgcaa gocgtgaca actcaccct tggccctggg aacaccagt tgtgcacag agactacaa atcacccagg tctcttccc actgtctac actgtctgt ttgttgg actatcaca aatggcoctg cgaagagat ttcttcaa atccggagta aatcaacti tattatttt ctlaagaca cagtcattc tgaatctc atgtatcga ctllccat caaaacti agtgaacca aactgggaac aggaccactg agaaatttg tgttcaagt tactctgc attttat tcacaatga tatcagtt tcatcttgg gactgtataac tatcgalgc taocagaaga ccacaggcc attaaaca tcaacocca aaaaactt tggggctaa atctctct tgtctactg ggcattcalg ttctactct ctgtccaa calgtctg accaagggc agccggagaga caagaatg agaaatgt ctctctaa atcagaagtc ggttagtct ggcagtaaat agtaaatc atctgcaag tcaattct gataattc taaatgta ttgtatgta tacactcatt acaaaagac tgaacggc atagtaaga acgagggg tgggttaaagt cccagggaaa aaggtgaacg tcaagttt cattacti gctgtact ttattgti tgtctctc catttggcc gaaatctta caccctgagc caaacccggg atgtcttga ctgcactg gaaatctc tgtctatgt gaaagagagc actgtgtgt taactctt aatgtcagc ctggatccgt tcaatatt ttctctgc aagctctca gaaatctt gataatgag ctgaatggcc ccaattctg aacatctc tccagggaca</p>	P	Homo sapiens
642	191168	P2Y12 Platelet ADP Receptor	NM_022788	<p>ggctgcaata actactacti actggatata ttaaacctt ccagaatcaa cagtatcag gtaaccaaca agaaatgcaa gocgtgaca actcaccct tggccctggg aacaccagt tgtgcacag agactacaa atcacccagg tctcttccc actgtctac actgtctgt ttgttgg actatcaca aatggcoctg cgaagagat ttcttcaa atccggagta aatcaacti tattatttt ctlaagaca cagtcattc tgaatctc atgtatcga ctllccat caaaacti agtgaacca aactgggaac aggaccactg agaaatttg tgttcaagt tactctgc attttat tcacaatga tatcagtt tcatcttgg gactgtataac tatcgalgc taocagaaga ccacaggcc attaaaca tcaacocca aaaaactt tggggctaa atctctct tgtctactg ggcattcalg ttctactct ctgtccaa calgtctg accaagggc agccggagaga caagaatg agaaatgt ctctctaa atcagaagtc ggttagtct ggcagtaaat agtaaatc atctgcaag tcaattct gataattc taaatgta ttgtatgta tacactcatt acaaaagac tgaacggc atagtaaga acgagggg tgggttaaagt cccagggaaa aaggtgaacg tcaagttt cattacti gctgtact ttattgti tgtctctc catttggcc gaaatctta caccctgagc caaacccggg atgtcttga ctgcactg gaaatctc tgtctatgt gaaagagagc actgtgtgt taactctt aatgtcagc ctggatccgt tcaatatt ttctctgc aagctctca gaaatctt gataatgag ctgaatggcc ccaattctg aacatctc tccagggaca</p>	A	Homo sapiens

643	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	<p>ataggaaaaa agaaaggat gggtggacc caaatgaaga gactocaaig taaacaatt aactaaggaa alatticnat ctcttggc tgaagacg taaagcaaa ggciaaagta aaaaataaa gicagagaaga agcaactaag ttaataaa tgaactiaa gaaacagaag atacaaga caatttcat ttactttcc agtaagaaga gctactiaa aataagaaga actaatiaa actgtagcig tattagcagc aaaaacaacg ac</p> <p>MQAVDNLTSA PGNTSLCTRD YKIQVLFP LYTVLFFVGL ITNGLAMRIF P Homo sapiens</p> <p>FQRKSNSFI IFKNTVISD LLMILTFPF ILSDAKLGTG PLRTFVCOVT SVIFYFTMYI</p> <p>SISFLGLTI DRYQKTRPF KTSNPKNLLG AKILSVIWA FMFLSLPNM ILNRPQRDK</p> <p>NVKKCSFLKS EFGLVWHEIV NYICQVFWI NFLIVVCYT LITKELYRSY</p> <p>VRTRGVGKVP RKKVNVKVI IIAVFICFV PFHFARIPYT LSQTRDVFDC</p> <p>TAENTLFYVK ESTLWLTSLN ACLDPFTYFF LCKSFRNSLI SMLKCPNSAT</p> <p>SLSQDNRRKKE QDGGDPNEET PM</p>
644	191193	Trace Amine Receptor 3 (TA3)	AF380189	<p>atgggaata atticocca agcgaaggct gtagagcigt gtiacaaga cgtgaacgaa tccigcatta aaactccita A Homo sapiens</p> <p>ctcgccaggc cctgaltcia tctciacgc cgtcttggc ttggggcig tctggcagc gtttggaaac ttactggica tgaatgctat</p> <p>ccttcactc aaacaactgc acacactac aaacttctg atggcgcgc tggccgicg tgaacttctg gtaggagica ctgtagcgc</p> <p>cttcagaca gtaggctcig tggagagcig ttgtactti gggagacagt actgaatc cctacatct ttgacacat cctctggtt</p> <p>tgtcttita ttcatatt gctgaltc tgtigalaga taccatcig ttactgac tctgacat ccaaccaagt ttactgigc</p> <p>agtticaggc atagcaltg ttcttctc gtctttct gtcacalaga gcttttcat ctttiacagc gtaggccaagc aagaaggaaat</p> <p>tggagaatta gtagtgcic taacctgigt aggagcgc caggctccac tgaataaaa cgggttcta cttgtttc ttacttct</p> <p>lataccaat gtcgccatgg tgttialala cagtaagata ttittggcg ccaagcalca ggttagggaaag atagaagata</p> <p>cagccagcca agctcagc tctcagaga gtiacaaga aagaagtagca aaaaagtaga gaaaggcgc caaaccttg</p> <p>ggaatgcta tggcagcatt tcttctct tggctaccat acctgtga tgcagigati gatgttata tgaatttat aactctctt</p> <p>taigtitlag agatitlag ttggigtgt ttatitatt cagtalaga cccctgatt tatgttct ttaccaatg gtttggaaag</p> <p>gcaalaaac ttatitlag cggcagc ttaaggatc aticgcaac aactaaitta ttcttgaag aagtagagac agataa</p> <p>MVNNFSQAEEA VELCYKNVNE SCIKTPYSPG PRSILYAVLG FGAVLAAFGN P Homo sapiens</p> <p>LLVMIAILHF KQLHTPTNFI IASLACADFL VGVTVMPFST VRSVESCWYF</p> <p>GDSYCKFHTC FDTSCFASL FHLCCISVDR YIAVTDPLTY PTKFTVSUSG ICIVLSWFFS</p> <p>VTYSFSIFYT GANEEGIEL VVALTCVGGC QAPLNQNWVL LCFLLFFIPN</p> <p>VAMVFYYSKI FLVAKHQARK IESTASQAS SSESYSKVA KRERKAATL</p> <p>GIAMAAFLVS WLPYLVDAVI DAYMNFITPP YVYEILVWCV YVNSAMNPLI</p> <p>YAFFYQWFGK AIKLIVSGKV LRTDSSTTNL FSEEVETD</p>
645	191196	G Protein- Coupled Receptor GPR80	AF411109	<p>atgaatgagc cactagacta tttagcaaat gcttctgatt tcccgatta tgcagcigt ttggaaat gactgaiga aaacalocca A Homo sapiens</p> <p>ctcaagatgc actacttcc tgttattat ggcattat tctctggg attccaggc aatgacagtag tgaatocac ttactttc</p> <p>aaaatgagac ctggagaag cagcaccatc attatctga acctggctcg cacagatcig ctgaltciga ccagctctcc</p> <p>cttctgatt cactactag ccagggcga aaactggatc ttggagatt tcatgttaa gttatccgc ttatcttcc atttcaacct</p> <p>gtatagcagc atctcttcc tcaacttt cagcalctc cgtactcig tgaatca cccaatgagc tgcitttcca ttcaaaaac</p> <p>tcatgltga gtttagcct gtcgtgtgtt gttgacatt tcatgttag ctgaltcc gtagccct ttgaltcat caaccaacag</p> <p>gaccaacaga tcaagctc tcaagctc cagctcggat gaacaaata ctataatg gtaaacctg tttagactg caactatit</p> <p>ctgctctccc ttggtagag tgacacttct ctatocac cttgacoca tggagcca actgacagct gcttaagca</p> <p>gaaagcacaga aggcatacca ttctgact cttgacatt ttactgatt tttaacct ctatctct agggicallc gtagcgaac</p> <p>tgcctctgt tcaatcagtt gttccattga gaatcagatc caatcagctt acatgttct tagaocatta gctgctciga acacttgg</p>

647	191196	G Protein-Coupled Receptor GPR80	CAC51133.1	taacctgtta ctatattggg tggcagcga caacttticag caggctctct gctcaacagt gagatgcmaa gtaagcggga accttgagca agcaagaata atagtact caaacaacc ttag MNEPLDYLAN ASDFDYAAA FGNCIDENP LKMHYLPVY GIIFL VGFPG NAVISTYIF KMRPWKSSSTI IMLNLACTDL LYL TSLPELI HYYASGENWI FGDFMCKFIR FSHFNLYSS ILFLTCSIF RYCVIHPS CFSHKTRCA VVACAVVWII SLVA VIPMTF LITSTNRTNR SACLDTSSD ELNCTKWYNL ILTATTFCLP LVIVTLCYTT IIHTLTHGLQ TDSLCKQKAR RL TILLALLAF YVCFLPFHIL RVIRSRLL SISCSENQI HEAYVSGPL AALNTFGNLL LYVVSDNFQ QAVCSTVRCK VSGNLEQAKK ISYSNNP tccctggccc taalaatatg actaatc ttaagctc tgaattc tctglaaaa caggggcggt aataccaca taacaggcig gfcagaaa tcaatgaaca tgcagcaggt gctcaagct tgttttgt tccaggggca ccagtgagg ttitcagc algatocaa ccaccgggc cgggggaaaca gaagtacaa cagtgaatgg aaatgacaa gccctcttc tctttggc caaggaacc cigatccgg tctctgat cctllcalt gccctggcgg ggctggtagg aaacgggttt gtcctcggc tccctggcct ccgcalgcgc aggaaagcct tctctgcta cgtctcagc ctggccgggg ccgactcct cttcctcgc ttccagatta taatggcct ggcalgcctg agtaactct tctgtccat cttccatcat ttccctagct tctccacc tggatgaac tggctcttc tctttggc caaggaacc agcacccgca gcaaccagcg cgtccgtcc cgtctggcgc ccactcggga tgcctggcgc ccgcccagac acctgtcagc ggctgggt gctcgtct ggcccccgc cctactcgc agcatcggc aaagggaagt cgtggcctc ttatttggc atggctgac tggttgggt cagacatg attccac tgcagcgggc cgtatttt taltcgtg tctcgtggc tccagctgg cctcgtgggt caggatcctc tgggttoca gggtctggcc actgaaccg cgtacccga ccatcgtct caccagcgc ggtctccoc tctcggcct gccctggc altcaggt tctaatat altgactcgg aaggatcgc atgtctat tttctat catcagttt cagttgtct gctatctt aacagcagc ccaaccat callactc ttctggggc ctttggga gcaaggcggc ctcagcagc cgtactcaa gctggctc cagaggcgc tgcaggacat tgcggggc gatacagc aaggatgctt ccgcaaggc accggaga tggggagc cagctggc tagataga cagctctac ttccatcaga tatatggc ttggaggc aactggcc cgtctgt gattcgtga acttctcag tctgaltt aaacagta agaggtcct tggaggat aagtgaaca MDPTPAWGT ESTTVNGNDQ ALLLLCGKET LIPVFLILFI ALVGL VGNFG VLWLLGFRMR RNAFSVYVLS LAGADFLFC FQIINCLVYL SNFFCSISIN FPSFTTVMT CAYLAGLSML STVSTERCLS VLWPIWYRCR RPRHLSAVVC VLLWALSLL SILEGKFCGF LFDGDSGWC QTDFITAAW LIFL FVLCG SSLALLVRIL CGSRGLPLTR LYL TILLTVL VFLLCGLPFG IQWFLILWIW KDSDVLFCH HPVSVLSSL NSSANPIYF FVGSFRKQWR LQQPILKLAL QRALQDIAEV DHSEGCFRQG TPMSRSSLV tcalact gcatctt ttgaggca agtttagat acacttggc catttccct gcatatggt gcaatggat gtcctgaag altttgct ttctggagg ttgagacat gccatagag cggggattgg tcatggac atggcgc atggagcca gtaagcagg actcaggga altcgtctca cactatggga agataacg tagatcct tgaagaaggc agacttgg ttaactct gcttacaat aataacalag catttggga tgaatgca atacaggat ccatgttag atataat gcaataat tccacagc gtaataat gccaaatg gtagcataga tagggagaa tggatccaa gctatgaat aatggat gccaatgta altgaattgg ctcattgta attcatal ttgcttga aaggcaaat gaaagcaatg aaggccaggga tggcaatgta gccagcag gtggcaatg caagtatga tccctcca cactcagga tgaactct gggaaggag acattcact ctacagtag tgcggcaag attagcaga gttggcaat gacaaccg altggcggc aagtgaagat aataagatc ggtctatga ggcactcag aaattcgt aattgggt caaagctga ggctagcaa atttccag acctcag aatgcaaggag algcaaaag taagctcac tcaacaatt gctggcctgg ttatcagtt ggtctcctca tgaagaagct cgtgctggca	P	Homo sapiens
648	191218	MrgX2 G Protein-Coupled Receptor	AY042214		A	Homo sapiens
649	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1		P	Homo sapiens
650	191222	G Protein-Coupled Receptor Ls191222	LG94359		A	Homo sapiens

651	191222	G Protein- Coupled Receptor Ls191222	ENSP00000199 719	aaattgagga aatgacagag aaggatcaca tagcagagc ttaatccccc ggaatpattc acaacaggcg tggtaggtt tctgtaaat attagcaca caacacagaac aaatatgatt ccagtagggg agagaatcag gtagtaggag gccaaggagt cattocagtt gtagatattc actctcttt caaagcacat agtgtccta acaggggggcc agtgagttt gttgttgc ataaaggcagt gaggcatalc t	P	Homo sapiens
				QTLAMHSIE MINNSTLLPG VKLGYEYDTC CTEVTVAMAA TLRFLSKFNC SRETVFKCD YSSYMPRVKA VIGSYSEIT MAVSRMLNLQ LMPQVGYEST AEILSDKIRF PSFLRTPSD FHQJKAHAHL IQKSGWNWIG IITDDDDYGR LALNTFIQA EANNVCIAFK EVLP AFLSDN TIEVRINRTL KKILEAQVN VVVFRLRFQH VFDFLNKALIE MNINKMWIAS DNWSTATKIT TIPNVKKIKG VVGFAFRGRN ISSHSLQN LHLLPSDSHK LLHEYAMHLS ACAYVKDIDL RLHISQLAV FALGYAIRDL CQARDQNPV AFQWELLGV LKNVTFIDGW NSFHDAHGD LNTGYDVVLW KEINGHMTVT KMAEYDLQND VFIIPDQETK NEFRNLKQIQ SKCSKECSPG QMKKTTRSQH ICCYEQNCNP ENHYTNQIDM PHCLLNNKT HWAPVRSTMC FEKEVEYLNW NDSLAILLI LSLGHIFVL VVGIFTRNL NTPVVKSSGG LRVCYVILLC HFLNFASTSF FIGEPQDFTC KTRQTMFGVS FTLISCILT KSLKILLAFS FDPKLQKFLK CLYRPILJIF TCTGIQVVIC TLWLIFAAPT VEVNVSILPRV ILECEEGSI LAFGTMGLGYI AILAFICFIF AFKGYENYN EAKFITFGML IYFIAWTFI PIYATTFGKY VPAVEIIVL ISNYGILYCT FIPKCYVIC KOEINTKSAF LKMIYSYSSH SVSSI tttttgagc taggaagaagt ggttggcta cggcacaga tagagcttcc agggctggct ggcgggggat accgtacca cagaaalgca gggaccattg cttctccag gctctgct tctgtcagc cttttggag ctgtgacta gaaacacaa acttctgtg ctaaaggccc cccaaalgct tctgtgta alaaactca ctgcactgc aacacttgc atactctgg atctggggcag aaacttca cattccctt ggaagacatg aacgacatta algaatgac accacctat agtgatatt gggatttaa cgtgtgtgt tacaatgctg aagggaagtt ctactgaca tgggtccag gatatagact gcatctggg aalgaaacat tcaatlaic caatgagaac accgtcagg acaccctc ctcaaaaga accggaggga ggaagaagct gcaaaagatt ggggacaaat tggatcact tctaccaat cagactttat ggaagaacaga agggagagaca gaaatctcat ccacagctac cactatctc cggagatggg aatcgaagaat tctagaact gcttgaag atccagaaca aaagctcctg aaaaacaaa accgaatggt agctatgaa actcaagcga ttacagaca ttgctctgaa gaaagaaaga cattaact gaactgcca algaactcaa tggacalccg ttgcaglgac atcatccagg gtagacaca aggtccaggt gcatggct ttatcata ttctctt ggaacatca taaatgcaac ttttttgaa gtagatgata agaaagatca agtgatcag aactctcagg ttgtgagtc tgcattgga ccaaaaggga accgtgtct ctccaagct gtagcgtcga ctltccaga cgtgaagatg accccagta ccaaaagggt cttctgtgtc tacttgtaaga gcacagggga gggcaggccag tgggtccagg atggctgctt cctgatalac gtagaacaaga gtcacaccaa gtagaatgg agtcacclgt ccagctcgc tggctgag gctctgaccca gcccaggagga ggaatccggg ctgactgctca tcaactact ggggcctgagc gctctcgc tggctcctt cctggggggc ctactttc tctgtgtaa agccatccag aacacagga octactgca tctgcagctc tggctctgccc tctctcgc ccactctc ttctcgtgg ggaatgacg aactgaacc aagggtgctgt gctccatcat cggcgggtgt ttgcacalc ttaactggc cggctcacc gggtagctgt tggtaggggt gcaactctc ctactgca ggaaactgac agtgggtaac tacaagca tcaatagact calgaagagg alcatgtcc cagctgggcta tggcgttccc gctgtgactg tggccatttc tgcagctcc tggcctcacc ttatgggaac tgcgtgtaag tgcgtgctcc accgtgacca gggattatcag tggagtttcc ttggccagat ctgtggccatt ttctctgca attagttat gttatttgg tttagaaag aaaacttcc tcccaala gtagaggtgc aacatccag aacacagga tgcgtggctt caaagcaaca gctcagctct tcatctgggg ctgcacatgg tgcgtgggt tgcataaggt ggggtccaggt gcccacagga tggcctactc ctccacc	A	Homo sapiens

653	193511	EGF-Like Module- Containing Mucin-Like Receptor EMR3	NP_115960.1	<p>atcaacagcc tcaagggcti cttaactc ttggctacti gctctctcag ccagcaggc cagaacaat atcaaaagig gtttagagag atcgtaaat caaatctga gctgagaca tacacatt ccagcaagat gggctctgac tcaaaacca gtgagggga tttttoca ggaacagta agagaata ttaaacatag aatataac tcaatgga aatataat catgatctc tttggcatia tgaagaalga agtaaggaa aagggaaatc ataaacata tcaacttgg agaggaaatc atcaacctt acttcccaag ctgtttgic tccaaatag gctcaaca aatgtgtgt aatgtcatt tctctcaaa aaaaaa MQGPLLPLG CFFLSLFGAV TQKTKTSCAK CPNASCNN THCTCNHGYT P SGSQKLFTF PLETCNDINE CTPYSVYCG FNAVYNVEG SFYCQCVPGY RLHSGNEQFS NSNENTCQDT TSSKTTEGRK ELQKIVDKFE SLLTNQTLWR TEGROEIST ATTILRDVES KVLETALKDP EQKVLKIQND SVAETQAIT DNCSEERKTF NLNVQMSMD IRCSIIQGD TQGPSAIAFI SYSSLGNIIN ATFFEEMDKK DQVYLSQVV SAAIGPKRNV SLKSVTLTF QHVKMTPTK KVFVCYWKST GQGSQWSRDG CFLIHVNKSH TMCNCSHLS FAVLMALTSQ EEDPVLTVIT YVGLSVSLC LLLAAL.TFL CKAIQNTSTS LHLQLSLCLF LAHLLFLVGI DRTEPKVLC IAGALHYLY LAAFTWMLLE GVHLFTARN LTVVNYSSIN RLMKWMFPV GYGVPATVA ISAAWPHLY GTADRCWLHL DQGFMSWFLG PVCAIFSANL VLFILVFIL KRKLSSLNSE VSTQNTML AFKATAQLFI LGCTWCLGLL QVGPAQVMA YLFTINSLO GFIFLVYCL LSQQVQKQYQ KWFEIVKSK SESETYTLSS KMGDPDKPSE GDVFPQVKR KY KHAYICLAAI WAYASFWTM PLVGLDYVP EPFGTSCILD WWLAQASVGG P QVFILNLF CLLLPTAVIV FSYVKIAKV KSSKEVAHF DSRHSHVL EMKLTKVAML ICAGFLIAWI PYAVSVWSA FGRPDSPIQ LSVVPTLLAK SAAMYNPIY QVIDYKACC QTGGLKATKK KSLGFRLLHT VTVRKSSAV LEIHEEV agcgaacct cggggcgagcc gggagccatg ttgagccagc gggagggcgc agcagcgicg gggatgctgt gggggggcg gaaaagcca gggccgcagc ccgggaggggc tccggccgcg gaggatagag gcccagagg gcccgggggg gcccggaggga caggcgagg gggggggggc cggggcgagc gcaaggggcc gggagggggc ccggagcggc gggccagccc aaggccgga ccgggggggg gggcggggga gggcgggcag gggcggggga gatgagggc agggcgggc cgtggcgggg ccgggggga cggcgagcc ccatctct gctctctc ctccttct tccctctcag ccaggaggag cggggggggc gggggacca gggcggggac caggcgctag cggccatc gggggccaagg gggcatatcg gggcgggg cttagctt ttgctggagt cttccgggt ccgggagggat gggggggcgc gctgggggt caggggagcct atctctg ggctccgagg gaggagcaa agcgcccgga atagtcgagg gcccctgag cagccggaat gggagcggg gattgaaac ggctccagc catggggcag ccgggaacga gaggagagac agggagacagg gctctgttta tactggcgcc caggagctc ctctgggg ccggagagac ctggcaag aggtagctc tcaacagggg ctcgtctc aggggtccc gggcggggg acagctcgc cctcttca gacttttga ttgggacca cggctccag ccgggtct cccagcgga cgtcgggaca ggctccgca aataggtggg caccgcgc ttgtgtgggg aatagggg aacagggagc aagggtcagg gggagagg cagacatcc gggagcaaaa gggagagccc ccggcggggaac ttgttccag gggccctgggg atctggggcc gaggctggalt caggacacg caggcgagg acagctctc catcaggtc agcacccgc gaggctcgg cagctccga ggcggcgcc aaggcgatgc gctccgggg ttcttccg tgcggctcc tccggcggc ccggggcg cgtccccgg gactccggc ccgtccgaa gcccgggaat taacctggg gaaacggggca cggcttctc gggccgcaa ccggccccc cagtttccg agtaacaa cagagagctg gttccgggga atgagcgagc agggcagcg gttgtcagc gttgtcagc gggagggac ggcgggagg ccggggggc agtactcgt cggggggcac tcatgaaacg ccggcgctc gaggctgtca gcatcgagcc</p>	Homo sapiens
654	193516	G Protein- Coupled Receptor dJ402H5.1	CAC21687.1	<p>KHAYICLAAI WAYASFWTM PLVGLDYVP EPFGTSCILD WWLAQASVGG P QVFILNLF CLLLPTAVIV FSYVKIAKV KSSKEVAHF DSRHSHVL EMKLTKVAML ICAGFLIAWI PYAVSVWSA FGRPDSPIQ LSVVPTLLAK SAAMYNPIY QVIDYKACC QTGGLKATKK KSLGFRLLHT VTVRKSSAV LEIHEEV agcgaacct cggggcgagcc gggagccatg ttgagccagc gggagggcgc agcagcgicg gggatgctgt gggggggcg gaaaagcca gggccgcagc ccgggaggggc tccggccgcg gaggatagag gcccagagg gcccgggggg gcccggaggga caggcgagg gggggggggc cggggcgagc gcaaggggcc gggagggggc ccggagcggc gggccagccc aaggccgga ccgggggggg gggcggggga gggcgggcag gggcggggga gatgagggc agggcgggc cgtggcgggg ccgggggga cggcgagcc ccatctct gctctctc ctccttct tccctctcag ccaggaggag cggggggggc gggggacca gggcggggac caggcgctag cggccatc gggggccaagg gggcatatcg gggcgggg cttagctt ttgctggagt cttccgggt ccgggagggat gggggggcgc gctgggggt caggggagcct atctctg ggctccgagg gaggagcaa agcgcccgga atagtcgagg gcccctgag cagccggaat gggagcggg gattgaaac ggctccagc catggggcag ccgggaacga gaggagagac agggagacagg gctctgttta tactggcgcc caggagctc ctctgggg ccggagagac ctggcaag aggtagctc tcaacagggg ctcgtctc aggggtccc gggcggggg acagctcgc cctcttca gacttttga ttgggacca cggctccag ccgggtct cccagcgga cgtcgggaca ggctccgca aataggtggg caccgcgc ttgtgtgggg aatagggg aacagggagc aagggtcagg gggagagg cagacatcc gggagcaaaa gggagagccc ccggcggggaac ttgttccag gggccctgggg atctggggcc gaggctggalt caggacacg caggcgagg acagctctc catcaggtc agcacccgc gaggctcgg cagctccga ggcggcgcc aaggcgatgc gctccgggg ttcttccg tgcggctcc tccggcggc ccggggcg cgtccccgg gactccggc ccgtccgaa gcccgggaat taacctggg gaaacggggca cggcttctc gggccgcaa ccggccccc cagtttccg agtaacaa cagagagctg gttccgggga atgagcgagc agggcagcg gttgtcagc gttgtcagc gggagggac ggcgggagg ccggggggc agtactcgt cggggggcac tcatgaaacg ccggcgctc gaggctgtca gcatcgagcc</p>	Homo sapiens
655	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NM_001407	<p>KHAYICLAAI WAYASFWTM PLVGLDYVP EPFGTSCILD WWLAQASVGG P QVFILNLF CLLLPTAVIV FSYVKIAKV KSSKEVAHF DSRHSHVL EMKLTKVAML ICAGFLIAWI PYAVSVWSA FGRPDSPIQ LSVVPTLLAK SAAMYNPIY QVIDYKACC QTGGLKATKK KSLGFRLLHT VTVRKSSAV LEIHEEV agcgaacct cggggcgagcc gggagccatg ttgagccagc gggagggcgc agcagcgicg gggatgctgt gggggggcg gaaaagcca gggccgcagc ccgggaggggc tccggccgcg gaggatagag gcccagagg gcccgggggg gcccggaggga caggcgagg gggggggggc cggggcgagc gcaaggggcc gggagggggc ccggagcggc gggccagccc aaggccgga ccgggggggg gggcggggga gggcgggcag gggcggggga gatgagggc agggcgggc cgtggcgggg ccgggggga cggcgagcc ccatctct gctctctc ctccttct tccctctcag ccaggaggag cggggggggc gggggacca gggcggggac caggcgctag cggccatc gggggccaagg gggcatatcg gggcgggg cttagctt ttgctggagt cttccgggt ccgggagggat gggggggcgc gctgggggt caggggagcct atctctg ggctccgagg gaggagcaa agcgcccgga atagtcgagg gcccctgag cagccggaat gggagcggg gattgaaac ggctccagc catggggcag ccgggaacga gaggagagac agggagacagg gctctgttta tactggcgcc caggagctc ctctgggg ccggagagac ctggcaag aggtagctc tcaacagggg ctcgtctc aggggtccc gggcggggg acagctcgc cctcttca gacttttga ttgggacca cggctccag ccgggtct cccagcgga cgtcgggaca ggctccgca aataggtggg caccgcgc ttgtgtgggg aatagggg aacagggagc aagggtcagg gggagagg cagacatcc gggagcaaaa gggagagccc ccggcggggaac ttgttccag gggccctgggg atctggggcc gaggctggalt caggacacg caggcgagg acagctctc catcaggtc agcacccgc gaggctcgg cagctccga ggcggcgcc aaggcgatgc gctccgggg ttcttccg tgcggctcc tccggcggc ccggggcg cgtccccgg gactccggc ccgtccgaa gcccgggaat taacctggg gaaacggggca cggcttctc gggccgcaa ccggccccc cagtttccg agtaacaa cagagagctg gttccgggga atgagcgagc agggcagcg gttgtcagc gttgtcagc gggagggac ggcgggagg ccggggggc agtactcgt cggggggcac tcatgaaacg ccggcgctc gaggctgtca gcatcgagcc</p>	Homo sapiens

[illegible]

[illegible]

[illegible]

636 193524 Cadherin EGF
LAG Seven-Pass
G-Type Receptor
3 (CELSR3)

NP_001398.1

P

Homo
sapiens

gcaaggaggag cagaacaag ggaattcaag accagagaatg taggtggccac tgcctciat gtttacagga tccctggg
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tctgttgg gaataact ctatagaaa caaaa
MMARRPPWRG LGERSTPILL LLLLSLFPLS QEELGGGQH QWDPGLAATT
GPRAHIGGGA LALCPSSGV REDGGPGLV REPIFVGLRG RRQSARNSRG
PPEQPNELG IEHGVQPLGS RERETGQPG SVLYWRPEVS SCGRTPGLQR
GSLSPGALSS GVPGSGNSSP LPSDFLRHH GPKPVSSQRN AGTGSRRKRVG
TARCCGELWA TGSKGQGERA TTSGAERTAP RRNCLPGASG SGPELDSAPR
TARTAPASGS APRESRTAPE PAPKRMRSRG LFRCLFPLQR PGRPPGLPA
RPEARV TSA NRARFRRAAN RHPQFPQYNY QTL VPENEA GTA VLRVVAQ
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LRVTAQDHGS PRLSATMVA VTVADRNDHS PVFEQAQYRE TLRENVEEGY
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VDREHMESYE LVVEASDQGG EPGRSATVR VHTVLDEND NAFQFSEKRY
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EIQVVAPLDF EAEREYALRI RAQDAGRPL SNNTGLASIQ VVDINDHIPI FVSTPFQVSV
LENAPLGHVS IHQAVDADH GENARLEYSL TGVAPDTPFV INSATGWVS
SGPLDRESVE HYFFGVEARD HGSPPLSASA SVTVTVLDVN DNRPEFTMKE
YHLRLNEDAA VGTSVSVTA VDRDANSAS YQITGGNTRN RFAISTQGGV
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AHYSVSVNED RPMGSTIVVI SASDD VGEN ARITYLLEDN LPQFRIDADS
GATLQAPLD YEDQVYTLA ITARDNGIPQ KADTTYVEVM VNDVNDNAPQ
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DTEAGRCV PGVCRNGGTC TDAPNGGFR C QCPAGGAFEG	
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QVRLTYST GESNTVVSPT VPGGLSDGQW HTVHLRYYNK	
SKDKVAVL SVDDCDVAVLQFGAEIGNY SCAAAGVQTS	
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KLHFCDSQP CKNSGFCSEWGSFSCDCPV GFGKDCQLT	
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SVTVTRGS GRASHLLLDQ VTVSDGRWHD LRLEQEEP	
LDLSLFQDT MAVGSELOGL KVKQLHVGL PPGSAEEAPQ	
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QPGYYGPG CVDACLLNPC QNQGSCRHLP GAPHGYTCDC	
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SCLPCDCY PVGSTSRSCA PHSGQCPCRP GALGRQCNSC	
RVLYDACP KSLRSGVWVP QTKFGVLATV PCPRGALGAA	
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YFSQDVRVT ARLLAHLLAF ESHQQGFGLT ATQDAHFNEN	
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WDPPGLAE QHGVWVTARDCELVHRNGSHA RCRCSTRGTG	
EGDLELLA VFTHVVAVS VAALVLTAAI LLSLSLKSNS	
LGVAELFL LGHRTNQL VCTAVAILLH YFFLSTFAWL	
VEPRNVDRG AMRFYHALGW GVPVLLGLA VGLDPEGYGN	
IWSFAGPV VLVVMNGTMFLAARTSCS TGQREAKKTS	
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WMPACLGRK AAPEEARPAP GLPGAYNNT ALFEESGLIR	
ARSGRTO DQDSQGRSY LRDNVLVRHG SAADHTDHSI	
AMFHRDAGA DSDSDSLSEERSLSIPS SESEDNGRTR	
SERLLTHP KDVDGNDLLS YWPALGECEA APCALQTWGS	
ANNNQDP ALTSGDETSI GRAQQRKGI LKNRLQYPLV	
RAATLGHR AVPAASYGRI YAGGTGSLSPASRYSSRE	
ERLEEAPA PVLRLSPRG SQECMDAAPG RLEPKDRGST	
AMAGRFGS RDALDLGAPR EWLSTLPPPR RTRDLDPQPP	
DPLLPSRP LDSLSRSSNS REQLDQVPSR HPSREALGPL PQLLRAREDS	
LDLSSIL ASFNSSALSS VQSSSTPLGP HTTATPSATA SVLGPSTPRS	
EVPRSEG HS	
cca gctctccaac agcagtlggc ccctaaagta gaatggagact aacactgagg ccaccocggc	A Homo
t cctactataa gcacacccccc cctgtggcgg ccatgttcat tgggtcact tctgtctctg	sapiens
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658	193914	Neuropeptide FF 1 Receptor	NP_071429.1	<p> accctggctgt cagtgaaocctg ctgggtgggaca tctctgcat gcccaacc ctgtgggaca accatcatcacc tgggtgggccc ttcgacaatg ccacatgcaa gatgagcggc ttgggtgacgg gcaltgtctgt gtcggcttcc gttttacac tgggtggccat tgctggggaa aggttccgt gcalcgtgca cccttccgc ggaagagcttga ccttggggaa gggcgtcgtc accatggccg tcalctggggc cctggcgtg ctatcatgt gtccctgggc cgtcacgctg accgtacacc gtagggagaca ccacttcalg gtggagcgcgc gcaaccgtc ctaccctc taccctgt gggagggcctg gcccgaggaag ggcaltgcgca ggggtclacac cacgtgtc tctcgaca ttaactggc ggcgtggcg ctatcgtgg tcatgtacg ccgcalcgcg cgcgaagctct ggcagggccc gggcccggcc cccggggggc agggaggtcgg ggaacccagca gcalcggcg gcaagggcgcg cgtgggtcac atgtgtgca tgggtggcgt gttttacg ctgtctggc tgcctggcgt gggcgtgctg ctgtctcaltg actacggggca gctcacggcg ccgcaagctg acctgggtcac cgttaccg ttccttgc cgcactggct gggccttctt aacagcagcg ccaacccat calctacgg tacttaacg agaaattccg ccggggcttc caggccggct tccggcccg ccttggccg cgccgtcgg ggaaccaca ggaagcctac tccagcggc ccggcgggct tctgcacagg cgggtcttc tgggtggcg ggcagcgac tccggcgtg ccttggagtc gggccctagc agtggggccc ccaggcccg ccgcttccg ctggggaaag ggcggggtgc taccagcg tgcacagg aaggcctg ctgtccac ctggccca ccatocagc ctgggatac tga MEGEPSPQPN SSWPLSQNGT NTEATPATNL TFSYYQHTS PVAAMFIVAY ALFFLCMVG NTLVCFVLK NRHMTVTNM FILNLA VSDL LVGFCMPTT LVDNLITGWP FDNATCKMSG LVQGMVSAS VFTLVAIA VEF RFRICVHPFR EKLTLRKALV TIAVIWALAL LIMCPSAVTL TVTREHHFM VDARNRSYPL YSCWEAWPEK GMRRVYTTVL FSHYLA PLA LIVVMYARIA RKLQAPGPA PGEEAADPR ASRRARVVH MLVMVALFFT LSWLPLWALL LLIDYGQLSA PQLHLVTVA FFAHWLAFF NSSANPIYG YFENFRRGF QAAFRARLCP RPSGSHKEAY SERPGGLLHR RVFVVVRPSD SGLPSESGPS SGAPRPGRLP LRNGRVAHHG LPREGPGCSH LPLTIPAWDI agatacat acttcttc caaacagcat aagaagtgat tgagccaca gataciaga ggaaggggc cctcgagtg tgggtgaag agataaaca ccagtcacag actatgacc cgtctgctg tgtcagtc aggggaaag aaagtggag tgcgtggct cattcttc ttacctca ctgacggca cgggtggctc ctgggggaaa atgaltgacat caaaacaaa aagaactca ttgtgaalaa gaaaaaacat ctggggccag tgggaalaa tcagtgtctg ctacgggtga cctatgaga ttccaggag aagaagatt tgagaatt tctgaagctc ttgaagcctc cattatag gtacatggg ctatagaa ttatcagagc aaaggctacc acagactgca acagctgaa tggagctc cagtgtaact gtagagacag ctacacctgg ttcttcc catgcttga tcccaagaac tgtacttc acacggcggc agcacttcca agctgtgaat gtcactcaa caactcagc cagagtga attctgtg ggaacaaag atttggggca cttcaaat taatgaaggg ttacaaag acctttgaa ttacttct gctatatac ccaatagc aaatgaatt gaattcaac ttaaaaaagc alatgaaga altcaaggt ttgagtcgt tcaaggcacc caatttcaa tgcactct gtcgccaag ttggagtgca atggcacaat ctaggctcac caaccttgc caaccttgc ctacgggtt caagagatc ccttgcctca gcctccaag tagctggaat tacaaggcacc tgcaccaca tccagtaac tttttgta ttttttag agacaggtt tcaatgtt gggcacatg gtctcaact cctgaact ggtgatccg ctgcttggc ccccaaagt ctggggttac aggcagagc caccacatc ggcctaggac ctataat ggaagagc ctaaaact tgggtcagtg agtagaact caaaacaa gacgtaggc agaaactga aagaaggcg agatcatgg tgcaggtgga tgggaaaaag tgaaggttgg ggaaggggt tgggggtgt cgaagggtt attttct tcaagcaacta caggagalat galtgctcat aattggagc cagaagtgg gcttgggt agatatt gcaagataa catgtataca tcatgtca aaacccagta gtcattgtt acagcaata aagaataatt tagtaata aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaaaaa aaa </p>	P	Homo sapiens
659	194319	G Protein-Coupled Receptor FLJ22684	NM_025048	<p> agatacat acttcttc caaacagcat aagaagtgat tgagccaca gataciaga ggaaggggc cctcgagtg tgggtgaag agataaaca ccagtcacag actatgacc cgtctgctg tgtcagtc aggggaaag aaagtggag tgcgtggct cattcttc ttacctca ctgacggca cgggtggctc ctgggggaaa atgaltgacat caaaacaaa aagaactca ttgtgaalaa gaaaaaacat ctggggccag tgggaalaa tcagtgtctg ctacgggtga cctatgaga ttccaggag aagaagatt tgagaatt tctgaagctc ttgaagcctc cattatag gtacatggg ctatagaa ttatcagagc aaaggctacc acagactgca acagctgaa tggagctc cagtgtaact gtagagacag ctacacctgg ttcttcc catgcttga tcccaagaac tgtacttc acacggcggc agcacttcca agctgtgaat gtcactcaa caactcagc cagagtga attctgtg ggaacaaag atttggggca cttcaaat taatgaaggg ttacaaag acctttgaa ttacttct gctatatac ccaatagc aaatgaatt gaattcaac ttaaaaaagc alatgaaga altcaaggt ttgagtcgt tcaaggcacc caatttcaa tgcactct gtcgccaag ttggagtgca atggcacaat ctaggctcac caaccttgc caaccttgc ctacgggtt caagagatc ccttgcctca gcctccaag tagctggaat tacaaggcacc tgcaccaca tccagtaac tttttgta ttttttag agacaggtt tcaatgtt gggcacatg gtctcaact cctgaact ggtgatccg ctgcttggc ccccaaagt ctggggttac aggcagagc caccacatc ggcctaggac ctataat ggaagagc ctaaaact tgggtcagtg agtagaact caaaacaa gacgtaggc agaaactga aagaaggcg agatcatgg tgcaggtgga tgggaaaaag tgaaggttgg ggaaggggt tgggggtgt cgaagggtt attttct tcaagcaacta caggagalat galtgctcat aattggagc cagaagtgg gcttgggt agatatt gcaagataa catgtataca tcatgtca aaacccagta gtcattgtt acagcaata aagaataatt tagtaata aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaaaaa aaa </p>	A	Homo sapiens

660	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	194319	NP_079324.1	MKVGVLWLIS FFTFTDGHGG FLGKNDDIKT KKELIVNKKK HLGPEVEEYQL LLQVYRDSK EKRDLRNFKL LKPPLLWSH GLRIIRAKA TTDNSLNGV LQCTCEDSYT WFPSPCLDPQ NCYLHTAGAL PSCECHLNNL SQSVNFCERT KIWGTFKINE RFTNDLLNSS SATYSKYANG IEIQLKKAYE RIQGFESVQV TQFRMSLLSP KLECNGTI	P	Homo sapiens
661	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NM_030774	194431	NM_030774	atgagttctt gcaacttacc acaatggacc ttgtgtccta ttggtatccc aggattagag aaagccattc tctgggttgg cttcccctc ctttcatlgt atgtatggc aatgttggc aactgacatg tggcttctat cgttaaggagc gaacgagcc tgcacgtcc gatgtacct ttctgtcagc catgtacatg gccitacc caaccacat caccacatc ctggccctt tctgtttga ttccgagag atagcttgg aggcctgtct taccagatg tttttatc atgcctctc agccattgaa tccaccatc tgcctggccat ggccttggac cgttatgtgg ccaatggca cccactggc catgtcagc tgcatacaaa taccataaca gccagatg gcatgtggc tgggttccg ggaatccctt tttttccc actgctctg cttgcaagc ggcgtggcct cttccactcc aatgtctct cgcatctcta ttgtgtcac caggatgtaa tgaagtggc ctatgcagac actttgcca atgtgttata tggcttact gccatctgc tggcatggg cgtggacgta atgtcatct cctgttcta ttttctgata ataccgaagc ttctgcaact gcttccaag tcaagagcggg ccaaggcctt tggaaacctgt gttcacaca ttgtgtgtt actgctctc tatgtccac ttatggcct ctactgtga caccgttgg gaaacagcct tcatccatt gttgtgtgt tcatgtgtga catctacc ctgtgtccct ttgtcatca tccatcatc tatgtgtcca aaaccaaaaa gatcagaaca cgggtgtcgt ctatgtcaa gatcagctgt gacaaggact tgcaggctgt gggagggcaag tga MSSCNFTHAT FVLIGIPGLE KAHFWVGFP LLSMYVVMFNG NCIVVFIVRT	P	Homo sapiens
662	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	194431	NP_110401.1	ERSLHAPMYL FLCMLAIDL ALSTSTMPKI LALFWFDSRE ISFEACLTQM FFIHLSAIE STILLAMAFD RYVAICHPLR HAAVLNNTVT AQIGIVAVVR GSLFFFLPL LIKRLAFCHS NVLSHSYCVH QDVMKLAYAD TLPNVVYGLT AILLVMGV DV MFISLSVFLI IRTVLQPSK SERAKAFGTC VSHIGVLA FVYPLIGLSVV HRFNGSLHPI VRVVMGDIYL LLPVINPII YGAKTKQRT RVLAMFKISC DKDLQAVGGK	P	Homo sapiens
663	194743	FLJ14454	NM_032787	194743	NM_032787	actttttca tgttctct gattgaagga tgaagaatit gaaagcagac tatgcacct ttataggag atcaaatc cactactc gattagcctc aaagtccca aaatacaaa acatccatc gacagatcac tgaaggagag actgtttt cttgtttaga atagtctcg atataactt ttatgtcaag aagaataaga gctatgtatt tctacccag gagtggatit gttgttggc ttacacatgg cttctgccc tgcctggaaac ctatgggtgc tgggtggcgt cgtgtgttga ctactgac gcatcttt gggactgggc atctggaga ttgtatcac gatccaaa ggaataatcta ctctctac aagcacctc acagagttct gcaaggaaagg tggaaactgg gaaatggca gatgtattg taccgaagaag tgaagaagac tgaatgtac aatgtcta ttgtgaaa atagtacct tatgggttt acttttggca gaatccatg gggcagatct ggaacatct tgcataatg tggcaagat actccaatg cgggcaatcc aatggcagtc cgtgtgtgca gttctctct atatggagag atagaatcac aaaaatgac aataggaaat tgcataaaaa atctggaaac cctggaaaag caggtagagg atgtcacag accatctat aacattct ctgaagtcca gatttaaca tctgatgcca alaaatlaac tcttgaagac atcatagtg ctacgtgagt ggttggagag alaticaaca ctccaagaa tgcitcact ggagcaaga aagtggccat agtaacatg agtaacatc tagatggcag tgaagatgt tticaaagag ttctgtctac tgcataatgat gatgocctta caactctat tgaagcaatg gtagctat cctgtctt ggttaataca tcatgtgtgg aaactaacat agcaatacag tcaagaat ttcttcaga aaalgcggtg gggccttcaa atgtctct ctctgtgcag aaaggagctia gcaatctct agttcttct tcaacattia tacaataaa tgggtgagtc cttaacccag atgcacagac tgaagctcag gttctgtcta atatgagaa aaattacac aagacatgct gtttctgt ttatcaaat gacaagct ttcaataca aactttiaa gctaaatcgg attttatga aaaaattatc tcaagcaaaa ctgatgaaaa tgaagcaagat cagatgtct ctgtgacat ggtctttagt ccaaatgata accataaaga attcaactc latctatg cctgtgtcta ttggaattg tcaagcaagg actgggacac atatggctgt caaaaagaca aggcgactga tggattcttg cgtcggcgt gcaacacalac taaatttt gctgtattaa tgaatitcaa aaaggattat caatatcca	A	Homo sapiens

666	194745	G Protein- Coupled Receptor SLT/MCH2	NP_115892.1	aaacatttgc actgacacgt tggagaacaa ggtaacagac catcgggac aatttgggoc ttggggcagc ttccittalc ctggcattgc ctgtctgggt clactgaag gtaacaaat tlaagacgg tgttgaagt tgtgttttg attgacalc occigacgat gtactctgt alacattta ttgacgata acaatttt ttccctct acccttgatt ttgtgttgt alattttat ttatgctat acttgggaga tgtatcaaa gaataaggat gccagatgct gcaatccacg tgaacaaa cagatagatga tgaagtggac aaagatggg ctgggtctgg tggtagtct talctctagt gctgcccct atcatgtgat acaactggg aacttacaga tggaaacgoc cacatggoc ttctatgg gttattact ctcactgt ctagctat ccagcagcag cattaacct ttcttaca tctgtctgag tggaaattc cagaacgct tgcctcaaat caaaagaaga gggacttga ggaataalca caatatggga aacacttga aalcacact ttaggaaagt acatggalca ccatgagct agcatgatt gtaactta ctgttatt tagaaagggc aggtgtacgg alatgttat gccattct ctgtgtact tgtgactct agcagcagg aagaagaagg taacctgca aatacaatga gcttaatalg ctaactgtaa aaaaaaaa aaaaaaaa	Homo sapiens
667	194756	Chemokine Receptor FKSG80/GPR81	NM_032554	MNPFHASCWN TSAELNKSX NKEFAYQTAS VVDTVLPSM IGIICSTGLV GNLIIVFTII P RSRKKTVPDI YICNLAVADL VHIVGMPFLI HQWARGGEWV FGGPLCTIIT SLDTCNQFAC SAIMTVMSVD RYFALVQFPR LTRWRTRYKT IRINLGLWAA SFILALPVWV YSKVIKFKDG VESCAFDLTS PDDVLWYTLV LTITTFEPL PLILVCYLI LCYTWMYQQ NKDARCCNPS VPKQXVMKLT KMLVVLVVVF ILSAAPYHVI QLVNLQMEQP TLAIFYVGYL SICLSYASSS INPFLYLLS GNFQKRLPQI QRRATEKEIN NMGNTLKSHP ccacacac aggaocgca tctgggtga tgaagtga cagcagcag ctgggtgagt gtaacgctc agataagcat ctgtgocatt gteggagct cctgggtgc tctgacocg gacattgct ctgctocgc catgtacac gggctgct ggccalcga gggggacac atctccagg tgaicggcc gctgctcatt gggctcttg tctgggggc actaggcaat ggggctgoc tgtgtggtt ctgtctac atgaagacct ggaaagocag cactgtttac ctittcaat tggcctgggc tgaattctc cttatgact gctgctctt tggagacac tatctcca gactgaga ctgggtctt ggggacalc cctgctgagt ggggtcttc acgttggcca tgaacagggc cggggagcgc gttctctta cgtgtgtgtg tggagacag tatttcaaa tggccaoc ccacacgag gtaacacta tctccacgc ggtggcggt ggcactgct gcaocctgic gggccggic atccggggaa cagtgtatct ttgtctgg agcaatctct gctgtcaaga gacggcgcgc tctgtgaga gcttcatat ggaagtcggc aatggctggc atgacatcat gtocagctg ggttcttta tggccctgg calcatctta ttgtctct tcaagattgt ttggacctg agggcgaggc agcagctggc cagacaggct cggatgaaga aggcgaccc gttcalcag gttgtggcaa ttgtgtcal cacatgctac ctgcccagcg tgtgtctag acatattc ctctggagc tgcctcgag tgcctggat cctctgtoc atggggccct gcacataac ctacgttca cclacatgaa cagcatgct gataccctgg tgaattatt tcaagccc tctttcca aatcttcaa caagctcaa atctgcagc tgaacoccaa gcaagocaga cactcaaaa cacaaggoc ggaagatag ccaatttga accctggctg caggatgic atcagtgtgg caaatgtt ccaagccag tcatgggc aatgggaltc ccacatgtt ggtgtgcat gaacaagcag accaacaaca ctgaggaaga tagagtggtg acttgaatt aactgtgt aaggggtgg gggcttga aatgocac cccttcta ttgcaagac gctctcgca catgaagc atcttcta tctgtcga aatgaattc acaaciat acccttgg gaggctcag t	Homo sapiens
668	194756	Chemokine Receptor FKSG80/GPR81	NP_115943.1	MYNGSCCREE GDTSQVMPP LLIVAFVLGA LGNGVALCGF CFHMKTWKPS TVYLFNLAVA DFLLMICLPF RTDYVLRHH WAFGDIPCRV GLFTLAMNRA GSIVFLTVVA ADYFKVVRH HHAVENTISTR VAAGIVCTLW ALVILGTVYL LLENHLCVQE TAVSCSFIM ESANGWHDIM FQLEFFMPLG IILFCSFKIV WSLRRRQQLA RQARMKKATR FIMVVAIVFI TCYLPVSAR LYFLWTVPSS ACDPSVHGAL HITLSFTYMN SMLDPLVYVF SSPSPKPFYN KLKICSLKPK	Homo sapiens

669	194757	G Protein-Coupled Receptor Ls194757	AL162032	QPGHSKTQRP EEMPISNLGR RSCISVANSF QSQSDGQWDP HIVVEWH	A	Homo sapiens
670	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	<p> gfcagtgaggt gtcgtgacagg gacgtctgg agagtggagc acgtlaagcag cacagtggagg ccaccaacag cagcaaccga gtcttgggt actggocct cctggactt agctccggag aaggggtctgt gtcgaacac ggtgtggcgc taccagaggagg aaactaac tactcgctt ggcgtgacac tcaactacc aacttgcca tctctgcca ggtgtgctccg ctggagggtca acattggcat cctcagct gtagaccagag tcaictaca gatacagcgc gacaactaca agatccatagg agacccaggt gocctcaagt tgaaggccaa ggcagtgagg cctcgtctgtg ccatctgggg taocctgggg gtccttgggg gtccttggctgt caacgggtgt gctgtgggtt tccagttcat gttggccag ctaactccc tgcaggggact gttcalatc cttcttcat gttctctgaa ttcaggagggt agagccgctt tcaaggcaca aaocaaagggt tggctgctca cgaagcagct cgcocgcacac tccaaagcga agcccttcca ctgggaaccic algaalgggga cccggccaggg caigggctcc accaagctcca gcccctgggg caaagagcagc cactctgccc accgctgcca cctgtcagcc gttggagccgg ggaaggctccc aaccagggcca ggtctggcgtc agaaacacac ccccaaca gaattgaatg cccacocctt gcccagggac cctctctgt cgtctgtctg gacatgggggt ttgtggcccc gagagagctgt tcttccccgt tgaactgggc tgcaggggca cactgtcag cccagcagcc tgaatccacag gccaaggtgg gcccctctgc ctggcalcca cccgtgggt gtagtacttc ctgggggggat tcccaagggaca cagtgggcctgt actgtgagtg tgcccttggag cctccctca tcaictagca tcaagaccag cgaaggccagg acactggggg cccgtgcccgc agccacaggga gggggagtttc agccctgtgt ccttgggtgg gcttgggggac tcaaggccaa agaggtgggtt cagggtcccca cgcacocctca gtcaggggca ggcaggtctggg ggtgtgtggg gaaagagcatg cggaggtccc agtgtctgaa tccactgagt ggtgagttcc ccacagccgg cgtatggcgt ggtgtgtgt tctgtagggt gttccggcgt gggcccaacct gttgtgtgt atcagttggg ggccctctgc caagccggagc tgaagccgtg ggcggggaggt gttgactctc caggtggagggg cgaacocctt gcccgtctc tgggggggtc cctctgtc acgtgaagag cctgtctggg ccttggaggt gcttggaggt gcttgggtt gggggggagct ctggggcalt cgtctgtgagt ttggcctt tgggaocccaa ttgggctta agatggocct ctcctctgt tgcagggocct ctgggtgt ctggggccac aggggtggc cgtgtcccg cagtgtccgtg gttccaggtg gaaaggtggg ggcattttcc agggcactgt ttcccca ggtcttctca tgggtcacag gcatctacag aagtgttcaa tggggcagacc accggcgagg tagcacagtg cgtccgtct ggttcaacag agacccacct ggcgtgtgtc cccactgaac tgaagagggga gggcctgggtga cagccgtgtc ttctgtgt aggggaattt alggtactag actcagcccc agaggggagag ggaataatgt tatggacca tgtgtgggga tgaactgt gaaacagagt ttgggtatcat agatgtgaat taagacacca ccgagagtag ggtgtgtggg ttcalactgt gctggatagg ctcgtgtgt cgtgtgaatg tgggtgaagac attcaacct ggtttgata ctggaaact ttctttaa acitgtgaoca tgaattcat cagccctcc acacocctat gctgtccgt ttcaaggtt agttttat gtaggocctgt gccccttggc agccacocctg gtgtctct aalgtaact ttcccgtt cgcctggagt ggaacactca tctgcaggcc tctcgtcat gggggaggga ggcaggggagc agcaggtctg cagggggtga ccttgtct tctgcaggc gaggccacag ctgcacacag cactgtccac alggtggacag tgcacaggcc cctgtgtatg gcccctgcaa ccgtgtctc ggcgggcacac ctgggtgtctg caggccacag ccgtctgtca gtagagagc ccalgttag talggtacta agttccatgt ttggccactg cccagggctc ccgtgaaccc agaaacagg tcaatggac cacagtgcca gattcctalc accccgggtga gacacclaga gtagagaaac tgaattocla caatgtcac ttggattt ccttatt agtttctat gaaacaaic aagtaaggaa ctactttag tttagatgga attattgtt ttlaattgt gccgtatca tctatagc taattttca agataagtaa tgaacaaac ctgtctaac cttgtttc caatgaatga aagtcalgca cttattat aggtctcag ttgggttc tgcagtact ttattcta tacaattt gggccaaaaa agaaattgg aaagaaagaa algtttagt talagttagaa gaaagatgat gacactaagt tggtaaaaaa ttgtgtgt ttatgaaat aaactcalt cctgaaaaaa aaaa </p>	P	Homo sapiens

671	194858	G Protein-Coupled Receptor LS194858	LG94710	QGLFIFLHC LLNSEVRAAF KHKTKVWSLT SSSARTSNAK PFHSDLMNGT RPGMASTKLS PWDKSSSAH RVDLSAV tiagttcaag tccaggtcga cacttcttgc gcttcttggg tggtaggcaa tgcctggggcc gggacttctc cgggaggctc ttcccacag ccccttggg cacttcttgc cggctccct ccagggggct gtttagcgct gctgcccag cccatggct accgggcactg ccgcttgcact ggcacttct agggagagga gggacacag tctccaggc cccagtgggc gggcttgc ataggccagg actgagagga gcaagtggc cacttggc cccagggc cccagggc cccagggc cccagggc cccttgcctg cctccagga agggccggg cagggggg cggctcctc cggcactc cccctccag cccagggc tcttgcagct gggggggg agtgccagc acgctggagc agggggagc agggggagc acggggggc gcaaggggc atagacttgc aggtacaggt aggggggctgg ggaagtagcc tgggagctgc agttgggccc agggggtcag tgggtccac ccaggccggg cagactggca agagcaggg gacaccca ggtgggggagc agggggccc gaatgctcc aggggggctgg agtgccca ggaactggcc gtaggctcc ccgttccca gcaagaggtt gggacagcag ggaagggagc aggaagtggg agccaagtac accagggc agtaggctca ggaagtagc accccggcg ccttggctc acagccctgg caatggggc aatggcagc ccgttggcag cccagccagc agtaggctca ggaagtagc gccaagcag gggcttgcgca gggggggc cccagggcag ccagggtca ggaagcaggt cggggtagt ataggctt cccagggcag ggaagggccc aagggggc tgggaaagg gctggggccc tggcagctg tgggggct cacttgc cggggagc aggggggagc gggggggc gggggggc gggggc QDTRHGNRC RAGCSNLT RKAQAQAP APNSHACRLP LQDSPVPRTK MTPNSTGEVP SPIPKGALGL SLALSLIT ANLLALGIA GTAACAATCW LLLPEPTAGW AAHGSGLTL PGLWNQSRG YWSCLLVLA PNFSLSLLA NLLL VHGERY MAVLRPLQPP GSRLALLT WAGPLLFASL PALGWNHWTP GANCSSQAIF PAPYLEVY GLLLPVGA AFLSVRLAT AHRQLQDICR LERAVCRDEP SALARALTWR QARAQAGAML LFGLCWGPYV ATLLSVLAY EQRPLPGPT LLSLSLGS SAAAVPVAMG LGDQRYTAPW RQPPKGACRG CGEPPPGTVP APALPTTQAA KAVSTWT tcaggccag gataagtaa tcatgggct cagggcactg gctagatgag tgggggggtt tgaacctaa tgttatccc atgttagcac agaatgtg tggcagatga ggaaggtcag gctcagagt cagcaagaac tggatttcaa acttgattg aggacoccca cctttgata ggttagctat tcttctgag tcttctat gccccttla aatgaggaag taatcccac atggcagggt gggtggggga atcagatc atacagctg tgalcacaac tggtttctt tccagggtc accagactgg ggttctgag catggattca accatccag tcttgggtag agaatgaca ccaatcaac gacttgggga gactccttgc tacaagcaga ccctgagct cagggggctg acttggcag tttccctgt cggctgaca ggaagcgg ttttggctt gcttggg tggcagcag caggggaagc tgttccalc taccctca accctggc ggcggactt ccttctta gggggacat tatalgtc ccgttacc tcalcaat ccggccatcc atctcaaaa tctcagtc tttctact tatalggct aagcagctg agcgccalca gcaaggggc ctgcttgc atcttggc ccatcttga ccatggcg cggccagat accgttalc ggtcatgt gcttgcct gggggctg ccttgcgg agaatcgg agtgagctt cgttgcctt cgttgcctt tgttgggt gaaagctcag atttctac aatggctg cgtttttt tatgttgg tcttgggg tccagcttgc tcttgcctg caggatctc ttttggatcc ggaagatgcc gctgaocagg ctgtatgga ccatctct cacttgcct gcttctcc tcttggctt gcccctgg atcagtggg cccgtttc caggatccac ctggatggc aggtcttatt ttgtatggt catctgtt ccatttct gtcggctt aacagcag ccaacccat catttct tcttgggctt ccttggga gcttcaaaa aggcagaaac tgaagctt tctcagagg gcttgcagg acagccctga ggttggatga ggttggaggt ggttcttca ggaagaccc gagcttctgg gaaagcagat ggaagcagat ctggccctg agaacagact tgggggca tggcttggcc ccacccctga caattatg catcttctt agccttctg ctagaatg	A	Homo sapiens
672	194858	G Protein-Coupled Receptor LS194858	ENSP00000053 533	QDTRHGNRC RAGCSNLT RKAQAQAP APNSHACRLP LQDSPVPRTK MTPNSTGEVP SPIPKGALGL SLALSLIT ANLLALGIA GTAACAATCW LLLPEPTAGW AAHGSGLTL PGLWNQSRG YWSCLLVLA PNFSLSLLA NLLL VHGERY MAVLRPLQPP GSRLALLT WAGPLLFASL PALGWNHWTP GANCSSQAIF PAPYLEVY GLLLPVGA AFLSVRLAT AHRQLQDICR LERAVCRDEP SALARALTWR QARAQAGAML LFGLCWGPYV ATLLSVLAY EQRPLPGPT LLSLSLGS SAAAVPVAMG LGDQRYTAPW RQPPKGACRG CGEPPPGTVP APALPTTQAA KAVSTWT tcaggccag gataagtaa tcatgggct cagggcactg gctagatgag tgggggggtt tgaacctaa tgttatccc atgttagcac agaatgtg tggcagatga ggaaggtcag gctcagagt cagcaagaac tggatttcaa acttgattg aggacoccca cctttgata ggttagctat tcttctgag tcttctat gccccttla aatgaggaag taatcccac atggcagggt gggtggggga atcagatc atacagctg tgalcacaac tggtttctt tccagggtc accagactgg ggttctgag catggattca accatccag tcttgggtag agaatgaca ccaatcaac gacttgggga gactccttgc tacaagcaga ccctgagct cagggggctg acttggcag tttccctgt cggctgaca ggaagcgg ttttggctt gcttggg tggcagcag caggggaagc tgttccalc taccctca accctggc ggcggactt ccttctta gggggacat tatalgtc ccgttacc tcalcaat ccggccatcc atctcaaaa tctcagtc tttctact tatalggct aagcagctg agcgccalca gcaaggggc ctgcttgc atcttggc ccatcttga ccatggcg cggccagat accgttalc ggtcatgt gcttgcct gggggctg ccttgcgg agaatcgg agtgagctt cgttgcctt cgttgcctt tgttgggt gaaagctcag atttctac aatggctg cgtttttt tatgttgg tcttgggg tccagcttgc tcttgcctg caggatctc ttttggatcc ggaagatgcc gctgaocagg ctgtatgga ccatctct cacttgcct gcttctcc tcttggctt gcccctgg atcagtggg cccgtttc caggatccac ctggatggc aggtcttatt ttgtatggt catctgtt ccatttct gtcggctt aacagcag ccaacccat catttct tcttgggctt ccttggga gcttcaaaa aggcagaaac tgaagctt tctcagagg gcttgcagg acagccctga ggttggatga ggttggaggt ggttcttca ggaagaccc gagcttctgg gaaagcagat ggaagcagat ctggccctg agaacagact tgggggca tggcttggcc ccacccctga caattatg catcttctt agccttctg ctagaatg	P	Homo sapiens
673	194878	MrgX3 G Protein-Coupled Receptor	AY042215	QDTRHGNRC RAGCSNLT RKAQAQAP APNSHACRLP LQDSPVPRTK MTPNSTGEVP SPIPKGALGL SLALSLIT ANLLALGIA GTAACAATCW LLLPEPTAGW AAHGSGLTL PGLWNQSRG YWSCLLVLA PNFSLSLLA NLLL VHGERY MAVLRPLQPP GSRLALLT WAGPLLFASL PALGWNHWTP GANCSSQAIF PAPYLEVY GLLLPVGA AFLSVRLAT AHRQLQDICR LERAVCRDEP SALARALTWR QARAQAGAML LFGLCWGPYV ATLLSVLAY EQRPLPGPT LLSLSLGS SAAAVPVAMG LGDQRYTAPW RQPPKGACRG CGEPPPGTVP APALPTTQAA KAVSTWT tcaggccag gataagtaa tcatgggct cagggcactg gctagatgag tgggggggtt tgaacctaa tgttatccc atgttagcac agaatgtg tggcagatga ggaaggtcag gctcagagt cagcaagaac tggatttcaa acttgattg aggacoccca cctttgata ggttagctat tcttctgag tcttctat gccccttla aatgaggaag taatcccac atggcagggt gggtggggga atcagatc atacagctg tgalcacaac tggtttctt tccagggtc accagactgg ggttctgag catggattca accatccag tcttgggtag agaatgaca ccaatcaac gacttgggga gactccttgc tacaagcaga ccctgagct cagggggctg acttggcag tttccctgt cggctgaca ggaagcgg ttttggctt gcttggg tggcagcag caggggaagc tgttccalc taccctca accctggc ggcggactt ccttctta gggggacat tatalgtc ccgttacc tcalcaat ccggccatcc atctcaaaa tctcagtc tttctact tatalggct aagcagctg agcgccalca gcaaggggc ctgcttgc atcttggc ccatcttga ccatggcg cggccagat accgttalc ggtcatgt gcttgcct gggggctg ccttgcgg agaatcgg agtgagctt cgttgcctt cgttgcctt tgttgggt gaaagctcag atttctac aatggctg cgtttttt tatgttgg tcttgggg tccagcttgc tcttgcctg caggatctc ttttggatcc ggaagatgcc gctgaocagg ctgtatgga ccatctct cacttgcct gcttctcc tcttggctt gcccctgg atcagtggg cccgtttc caggatccac ctggatggc aggtcttatt ttgtatggt catctgtt ccatttct gtcggctt aacagcag ccaacccat catttct tcttgggctt ccttggga gcttcaaaa aggcagaaac tgaagctt tctcagagg gcttgcagg acagccctga ggttggatga ggttggaggt ggttcttca ggaagaccc gagcttctgg gaaagcagat ggaagcagat ctggccctg agaacagact tgggggca tggcttggcc ccacccctga caattatg catcttctt agccttctg ctagaatg	A	Homo sapiens

[illegible]

[illegible]

Homo sapiens

2

**G Protein-
Coupled Receptor
GPCRB3**

194903

676

677	194904	WO0034334- hFB41A	AX147788	<p>VLGSSTWSPV QLNINETKIQ WHGKNHQVPK SVCSSDCLEG HORVVTGFHH CCFECVPCGA GTFLNKSELY RCQPCGTEEW APEGSTQCFP RTVVFLALRE HTSWVLLAAN TLLLLLLGT AGLFAWHLDT PVRSAGGRL CFLMLGSLAA GSGSLYGFEG EPTRPACLLR QALFALGFTI FLCLTVRSF QLIIFKFST KVPFYHAWV QNHGAGLFVMISSAAQLLIC LTWL VVWVTP L PAREYQRFP LVMLECTETN SLGFLAFLY NGLLSISAF CSYLKDDLPE NYNEAKCVTF SLLFNFSWI AFFTTASVYD GKYLPAANMM AGLSSLSSGF GGYFPLKCYV ILCRPDLNST EHFQASIQDY TRCGST</p> <p>gagcaacatg atcttttga agtactgac ggtgtcgttc ttgacggta cgaagcacag agtgttgatc atgttgttc tcatggcgat gcactgcagc atgtagaagg cagttaggta gtgtcttcc ttcaacaaca cgttggggaa gaagtcgcgc acgtatgtga agccgtagaa gggcgccacg calagcacgt aggcgggtgag gatgcacatg agcaccaagg cegtctctt gggcagcgc agcctctgc ggtatcgtc tgtctggat ccaggggaccg ccttgaacca gtagctcccg gtagatccctgg calagcacag ggtcatggg accacggggc ccaggaattc tatgcaaa ataaagaggaa agtaggacti gtagtagagc tgcgtgtcca caggccagat ctggccgag aagatcttt cctggctctt gacaatgac aggaocgtct cgtgtgtgaa gtaggcggaa ggatggga tcaaggatga caogtccac accaaggcaa tcaaggcagt ggtgtttgg cactcaic gtgtctcag cgtatggaca ataggcagat acctaggga agaacacaag tggaggcagc c MGFMDDNATN TSTFLSVLN PHGAHATSP FNFSYSDYDM PLDEDEDVTN P</p> <p>SRTFAAKIV IGMALVGIML VCGIGNFIFI AALVRYKKLR NLTNLLIANL AISDFLVAIV CCPFEMDYV VRQLSWEHGH VLCTSVNYLR TVSLYVSTNA LLAIDRYL AIVHPLRPRM KCQTATGLIA LVWTVSILIA IPSAYFTTET VLIVKSQEK IFCGQIWPVD QQLYYKSYFL FIFGIEFVGP VVTMTLCYAR ISRELWFKAV PGFQTEQIRK RLRCRRKTVL VLMCILTAYV LCWAPFYGFT IVRDFPTVF VKEKHYLTAF YIVECIAMSN SMINTLCFTV VKNDTVKYFK KIMLLHWKAS YNGKSSADL DLKTIGMPAT EEVDCIRLK</p>	Homo sapiens
678	194904	WO0034334- hFB41A	LR114	<p>gacacagagg gccggccgcc atgttggaact gtagctgtgt caacggcaca gggctgtgtgg agtagcttgc tgcctgcag gacctgtcagc tggggctgtc actgtgtcgt ctgtctggggcc tgggtgtggg cgtgtccagtgt gggccgtgtct acaatggccct gctgtgtctg gccaacctac acagcaaggc cagcalgac accatggagc tgtacttgt caacatggca gtagcaggcc tgggtctcag cgtccctggcc cctgtgcacc tgcctggccc cccgagctcc cgtgtggggc tgtgtgagtgt gggcgggcgaa gtccacgtgg cactgcagat cccctcaat gtgtctcac tgggtggccat gtagtccacc gcccgtcga gcccgaoca ctacalcgag cgtgcactgc cgtggacctc calggccagc gtgttacaaca cgtgtgcaagt gtgtggcttc gtgtgggggtg ggtgtgtgt gaccagcttc tctcgtctc tcttcaat ctgcagccat gtagtccacc ggtgtgtcgt gtagcagag atgcaagaaag cagaaagctgc cgtgcagccag ctgtgtgtc tgggtcagc ctgtgtccacc ctgtgtccacc tctacgtgt ggtgtctatc tccctgtcc gcaaggagaa cactggccctg gacccgggaca cggggccgtgt gtagggccctg gacacaggc tgcgtgtgt caccgtgtgt acgtcagtttg ggtctgtgac ggcacatct ctgactcgtc tgggggacac ggtgtcaltc tcgtgagggaa agccgtgtg cgtcacatct ctggggctac tgcatttgt gaaaggatttc tccaactcc tggcctctc cagcagcttt gtagacacac ttcttaccg ctacatgaac cagagcttcc ccaagcagct ccaagggctg atgaaaaagc tgcctgtcgg ggaocggcac tgcctccgg accaatgggg ggtgtcagcag ggtgtgtgt aggtgtgtcc gcccctctgg ggaagcgtga ctctgtgtga cgtcagagcac ttggttaacc tgggacgtcc ccaactctt ccaagagggag acgtgtgtgt ggaagagaaag cagtaggggt gttttctg aagtttctt ttccacaa atgccaact tggggcaggg ctgtgtgtcc cgtgtgtgtgt atctgtgtgt agtctcccg aggtccctgtgt gtagtccac cagcagcgtc aaggtgtccaca tctgtcaaaag</p>	Homo sapiens
679	194905	G Protein- Coupled Receptor MGC7035	BC014241		Homo sapiens

680	194905	G Protein- Coupled Receptor MGC7035	LR112	<p>ccctcgcgc ttcagcctcc ttcagcattca gttgtcaat gaagtgatga aagcttaga ccagattta tactttggg ttaataact tgattccccc ttgtttgtt tacaaaaa gattttcct agaaaaatga caaatagtaa aatgaacaaa accctacgaa agaatggcaa cagccaggtt ggcggggccc tgcagtggtg cggcgtgtgc tagcaagccc tgcgggggtt gccgcagtica cccaggggt ctgagaacat ttacagaag tgcctgagac gcgagacat ggcctgggtt aatgagct attcaatgc agtgacgcgc tctctcagc caccatgt cctgacacc cccaccgccc ccacagata acatcagctg aggtttttt cagtgaac cigtctaaa tcaattctc aaagtgtga caaactaaa gaataaat aaacaaaga aagtgaaa aaaaaaaa aaaa</p> <p>MWSCSWFNGT XLVEELXACQ DLQLGLSLLS LLGLVGVVPV GLCYNALLVL ANLHKSAMT MPDVYFVNMA VAGLVLSALA PVHLLGPPSS RNALWSVGGE VHVALQIPFN VSSLVAMYST ALLSLDHYIE RALPRTYMAS VYNTRHVCGF VWGGALLTSF SLLFYICSH VSTRALECAK MQNAEADAT LVFIFYVYVPA LATLYALVLL SRVRREDTPL DRDTGRLEPS AHRLLVATVC TQFGLWTHY LILLGHTVII SRGKPVDAH YLGLLHFVKDF SKLLAFSSSF VTPLLYRYMN QSFPSKLQRL MKKLPCGDRH CSPDHMGVQQ VLA</p>	P	Homo sapiens
681	194907	G Protein- Coupled Receptor 14273	LD22826	<p>TCCGGACTAG TTCTAGACCG CTGCGGGCCG CCAAGGCCG GGAATGTCCC CTGAATGCC GCGGCAGCG GCGACCGCG CCTTGGCAG CTGGAGCAA GCCAACGCA CCGCTTCC CTCTCTCC GACGTCAAG GCGACCCCG GCTGTGCTG GCGCGGTGG AGACAACCGT GCTGTGCTC ATCTTGCAG TGTCGTGCT GGGCAACGTG TGCGCCCTGG TGCTGTGGC GCGCCGACGA CGCCGCGCG CGACTGCCG CTGTGTAAC AACTCTTCT GCGCGGACCT GCTTTCATC AGCGCTATCC CTCTGTGCT GCGCGTGGC TGGACTGAGG CCTCCCTGCT GGGCCCCGTT GCTGCCAC CTCTCTCTA CGTGATGACC CTGAGCGCA GCGTACCAT CCTCACGCTG CCGCGGTCA GCTGGAGGG CATGGTGRG ATCGRGCACC TGGAGCGCG GCTGGGGT CCTCCGCGG GGCGCGGGC AGTGCTGTG GCSCTCATCT GGGCTATT GCGGTGCGC GCTCTGCTC TGTGCGCTT CTTCGAGTC GTCCCGCAAC GGTCCCGG CGCCAGCAG GAAATTCTGA TTGCAACT GATTGGCCC AGCATTCCTC GAGATCTC GTGGATGC TCTTTGTA CTTTGAACTT CTGTGTCCA GGACTGTCA TTGTGATCAG TTAACCAA ATTTACAGA TCACAAAGC ATCAAGGAAG AGGTCACCG TAAGCTGCT CTACTCGGAG ACCCACCAGA TCCGCTGTC CCAGCAGGAC TTCGGCTCT TCCGACCTT CTTCCTCTC ATGGTCTCT TCTCATCAT GTGGAGCCC ATCATCATCA CCATCTCTT CATCTGATC CAGAACTCA AGCAAGACCT GGTCTATCG CCGTCCCTT TCTCTGGGT GGTCCCTTC ACATTGTCTA ATTCAGCCTT AAACCCCATC CTCTACAA TGACACTGTG CAGGAATGAG TGAAGAAA TTTTGTGTG CTTCTGTTT CCAGAAAAGG GAGCCATTTT AACAGACACA TGTGTCAAA GAAATGACTT GTGATTAAT TCTGGCTAAT TTTCTTTATA GCCGAGTTTC TCACACCTGG CGAGCTGTGG CATGCTTTTA AACAGAGTTC ATTCCAGTA CCCTCCATCA GTGCACCTG CTTTAAAGAA ATGAACCTAT GCAAATAGAC ATCCACAGCG TCGGTAAT AAGGGGTGAT CACCAAGTTT CATAATATT TCCCTTTATA AAAGGATTG TTGCCAGGT GCACTGGTTC ATGCTGTAA</p>	A	Homo sapiens

Homo sapiens

P

LR116

G Protein-Coupled Receptor 14273

194907

682

TCCAGCAGT TTGGGCTGAG GTGGGTGGAT CACCTGAGGT CAGGAGTTCG
AGACCAACT GACCAACATG GTGAGACCCC CGTCTCTACT AAAAATAAAA
AAAAAATTA GCTGGGAGTG GTGGTGGGCA CCGTAATCC TAGCTACTTG
GGAGGCTCAA CCACGAGAA CTCTTGAACC TGGGAGGCAG AGGTTGCAGT
GAGCCGAGAT CGTGCCATG CACTCCAACC AGGCAACAA GAGTGAAACT
CCATCTTAA AAAAAAAA AAAGATTGT TATGGGTTC TTTAAATGT
GAACTTTTT AGTGTTTG TATATGATCA AATTAAATA ATATTATTT
ATGACTGTT AGCAAAAAA AAAAAAAA AGGCGCG
MSPECARAAAG DAPLRLEQA NRTRPFESD VKGDHRLVLA AVETTVLVL
FAVSLGNVC ALVLVARRRR RGATACLVN LFCADLLFIS APLVLAVRW
TEAWLLGPVA CHLLFYVMTL SGSVTILTA AVSLDRMVCV VMLQRGVRC
RRARAVLLA LIWGYSAVA LPLCVFVRV PQLPGADQE ISICTLIWPT
IPGEISWDVS FVTNLFLVPG LVIVISYSKI LQTTKASRK LTVSLAYSRS HQIRVSQQDF
RLFRITFLLM VSFIMWSPI IDTILLILQ NFKQDLVIWP SLPPWVVAFT FANSALNPIL
YNMTCRNEW KKIFCCTWFP EKGAILTDT VKNRDLISIS G
ITYSAISDEL RDKVRFPALL RTTPSADHHV EAMVQLMLHF RWNWIVLVS
SDTYGRDNQQL LGERVARRD ICIAFQETLP TLQPNQNMST EERQLVTIV
DKLQOSTARV VVVFSPDLT YHFFNEVLQ NFTGAVVIAS ESWAIDPVLH
NLTELHLGT FLGTTIQSV IPGFSEFREW GPQAGPPPLS RTSQSYTCNQ
ECDNCLNATL SFNTILRLSG ERVVSYSVA VYVAHALHS LLGCDKSTCT
KRVVYPWQLL EEIWKVNFTL LDHQIFDPQ GDVALHLEIV QWQWDRSQNP
FQSVASYPL QRQLNKTSL LHTVNTIPM SMCSCRQCSG QKKKPVGIHV
CCFECIDCLP GTFLNHTCP NNEWSYQSET SCFKRQLVFL EWHEAPTIAV
ALLAALGFLS TLAILVIFWR HFQTPIVRSA GGPMLFLMLT LLLVAYMVVP
VYVGPVKVST CLCRQALFPL CFTICISCA VRSFQIVCAF KMASRFPFRAY
SYWVRYQGPY VSMAFITVLK MVIVVIGMLA RPQSHPRTPD DDPKTIIVSC
NPNYRNSLLF NTSLDLLSV VGFSAFYMKG ELPTNYNEAK FITLSMTFYF
TSSVSLCTFM SAYSGVLVTI VDILLVTVLNL LAISLGYFGP KCYMILFYPE
RNTPAYFNSM IQGYTMRRD

Homo sapiens

P

LR117

G Protein-coupled Receptor Gpcrb4

194908

683

Homo sapiens

A

AF380192

Trace Amine Receptor 4 (TA4)

194957

684

atgacagca attcatocct gctggtgct gfgcagctg gctacgcaa cgtgaatggg tctgigtga aaatccctt
ctgcggaga tccgggtga ttctgtacat aggttggc ttggggctg tgcggctgt gttgggaac ctctgttga tgattcaat
ctctcattic aagcagctg acitocgac caatttctc gtgctctc tggcctgctg tgaattctg gttgggttga ctgtgagcc
cttcagcatg gtcaggacgg tggagagctg ctgtatit tggagaggti ttgtactt ccacactgc tggatggtg catittgtia
cttctctc ttactgt gctcactc calc-gacagg tacatggcg ttactgacc cctgtgtat octaccaatg tcaaccgtac
tgtgacaga attgacatca gctgtctctg gactgccc ctcatgaca gctgtctgt gttctacaca ggtgtctatg acgattggct
ggaggaattia tctgagccc laaacigtat aggaaggtgt cagaccgtg taaatcaaaa ctgggtgtg acagatttct latocltct
talacclacc ttattatga taattctgta tggtaacata ttctgtgg ctgacgaca ggcgaanaag atagaaaaa ctggtagcaa
gacagaatca tctcagaga gtiacaagc cagagtggcc aggaagagaga gaaagacagc laaacctctg ggggtcacag
tggtagcatl tatgattca tggtaacct atagcatga ttactaat gattcctta tgggtttat aacctctgct tgtattatg
agatttgcig tgggtgct tatataact cagccalgaa tctttgatt ttaccatg gtttaggaaa gcaataaaag

685	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	<p>ttattgtaac tggcagcaggti ttaagaaca gttcagcaac calgaatttg ttctctgaac alatalaa</p> <p>MSSNSSLLVA VOLCYANVNG SCVKIPSPG SRVILYIVFG FGAVLAVFGN</p> <p>LLVMISILHF KQLHSPTNFL VASLACADEL VGVTVMPFSM VRTVESCWYF</p> <p>GRSFCFTHTC CDVAFCYSSL FHLCFISDR YIAVTDPLVY PKFTVSVSG ICISVSWILP</p> <p>LMYSGAVFYT GUYDDGLEEL SDALNCIGGC QTVVNQNWVL TDFLSFFIPT</p> <p>FIMILYGNL FLVARRQAKK IENTGSKTES SSESYKARVA RRRKAAKTL</p> <p>GVTVAFMIS WLPYSIDSLI DAFMGFTPA CIYEICWCWA YNSAMNPLI</p> <p>YALFPWFRK AIKVVITGVQV LKNSSATMNL FSEHI</p> <p>algaccagca attitocca accgttgttg cagcttgtct atgaggatgt gaaalgatct tgaattgaaa ctccctatic lccitgggtcc</p> <p>cgggttaatic tgaacagcg gtttagctti gggcttgttc tggcttgtti tggaaatic tgaataic tgaataic ctcttgtct tcatituaag</p> <p>cagctgcaact ctcaaccaa ttcttcatt gctctctgg cctgtgtctga ctctgttga ggtgtgactg tgaigtctti cagcalggc</p> <p>aggacgggtgg agagctgtcgt gtaatttga gcaaaattt gtactctca cagttgtctg gagtggcat ttigtactc ttctgtctc</p> <p>cacttgtct tcatgtcat cgacaggtac atgtgttga ctgacctcct ggctatgct accaagtca ccgtgtctgt gtcgggaatt</p> <p>tgcacagcg tgcctggat tctgctctc acgtacagcg gtcgtgtgt ctacacaggt gtaalgatg atgggtgtgg</p> <p>ggaattatga agtgcctca actgcgtagg tggctgtcaa atattgtaa gtaagctg ggtgtgata gatttgtgt tatttctat</p> <p>acctacctt gtaataaa ttctttacag taagatttt ctatagcta acaacaagc tataaaatt gaaactacia gtagcaagt</p> <p>agaalcalcc tcagagagti ataaalcalcg agtggccaag agagagagga aagcagaciaa aaacctgggg gtcacggtag</p> <p>tagcaattgt tattcalgg ttacctata cagtgtalat attaattgat gctttatgg gcttctgac ccctgtctat atctatgaaa</p> <p>tttgtgttg gtagtctat tataacacag ccatgaatcc ttgtattat gctctatt atctgtgt taggaagcc ataaaaacta</p> <p>tttaagttg agatgtta aaggctagt cataacat tagttatt tgaataa</p> <p>MTSNFSQPVV QLCYEDVNGS CIETPSPGS RVILYTAFSF GSLLAVFGNL</p> <p>LVMTSVLHFK QLHSPTNFLI ASLACADFLV GVTVMFSMV RTVESCWYFG</p> <p>AKFCTLHSCC DVAFCYSSL HLCFICIDRY IVTVDPLVYA TKFTVSVSGI CISVSWILPL</p> <p>TYSGAVFYTG VNDDGLEELV SALNCVGGCQ IIVSQGWLI DFLFFIPTL VMILYSKIF</p> <p>LIAKQQAUKI ETTSSKVESS SESYKIRVAK RERKAAKTLG VTVLAFVISW LPYTVVDILID</p> <p>AFMGFLTPAY IYEICWCWAS YNSAMNPLIY ALFPWFRKA IKLLSGDVL</p> <p>KASSTISLF LE</p>	P	Homo sapiens
686	194958	Trace Amine Receptor 5 (TA5)	AF380193	<p>tgcatgtct tcttctct ccatgatalga ccatgtcttag tcacagatgt gtaacaaca cctcttgtg tatcgaatt cctccaccig</p> <p>aaagaaaatt tcagaccag gataatata tcalcgggtc caaagccctg gcccggatgag tgggggtgti ttgaltctaa</p> <p>tgtattccc atgtacagcac agaatctgtg tggcagtaga agatgtcag gcttcagagt caacagaaac tggatttcaa</p> <p>acttgatttg aggaacccca cctttgttaa gtagcttatt atctgtgagc ctctgtcti ctcttita aatgagaca gtaaatccca</p> <p>tacggcaggg tggtagggag aatcagatg atacagatg gtagacatg ctgttgttg ttccaggggg caccagacia</p> <p>gagtttctga gcatgtalcc aaacctcca gttctggta caaaacigac accaalcaac ggaagtgtgg agactcctg</p> <p>ctacaatcag accgtgagct tcacgtgtct gactgtcalt atttcccttg tggagctgac aggaacagcg gtagtgtct</p> <p>ggctcttggg ctac-gcatg cgacaggaacg ctgtctocat ctacatctc aaactggocg cagcagacti ccttctctc</p> <p>agcttccaga ttatagctc gcatatagc ctalcaata tcagccatct cctccgcaaa atcctgttt ctgtgtgac ctttccctac</p> <p>tttacagggc tgaatgtct gtagcgcalt agcaccagcg gcgtcgtct gtttgtgtg ccatctgtt accgtgtccg</p> <p>cggcccca cactgtcag cgtgtgtgtg tgcctgtct tggggctgt cctctgti tagtgtctg gtaggtgtgt tctgtacti</p> <p>cctgtttagt ggtgtgtgt clagtgtgt gaaacgtca gattcalcc cagtgtgtg gctgtatt ttatgtgtg ttctgtgt</p> <p>ttccagcctg gttctgtgt tggatctct ctgtgtgtcc cgggaagatgc cgtgtgtgac gctgtgtgt accalctgtc</p>	A	Homo sapiens
687	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	<p>tgcatgtct tcttctct ccatgatalga ccatgtcttag tcacagatgt gtaacaaca cctcttgtg tatcgaatt cctccaccig</p> <p>aaagaaaatt tcagaccag gataatata tcalcgggtc caaagccctg gcccggatgag tgggggtgti ttgaltctaa</p> <p>tgtattccc atgtacagcac agaatctgtg tggcagtaga agatgtcag gcttcagagt caacagaaac tggatttcaa</p> <p>acttgatttg aggaacccca cctttgttaa gtagcttatt atctgtgagc ctctgtcti ctcttita aatgagaca gtaaatccca</p> <p>tacggcaggg tggtagggag aatcagatg atacagatg gtagacatg ctgttgttg ttccaggggg caccagacia</p> <p>gagtttctga gcatgtalcc aaacctcca gttctggta caaaacigac accaalcaac ggaagtgtgg agactcctg</p> <p>ctacaatcag accgtgagct tcacgtgtct gactgtcalt atttcccttg tggagctgac aggaacagcg gtagtgtct</p> <p>ggctcttggg ctac-gcatg cgacaggaacg ctgtctocat ctacatctc aaactggocg cagcagacti ccttctctc</p> <p>agcttccaga ttatagctc gcatatagc ctalcaata tcagccatct cctccgcaaa atcctgttt ctgtgtgac ctttccctac</p> <p>tttacagggc tgaatgtct gtagcgcalt agcaccagcg gcgtcgtct gtttgtgtg ccatctgtt accgtgtccg</p> <p>cggcccca cactgtcag cgtgtgtgtg tgcctgtct tggggctgt cctctgti tagtgtctg gtaggtgtgt tctgtacti</p> <p>cctgtttagt ggtgtgtgt clagtgtgt gaaacgtca gattcalcc cagtgtgtg gctgtatt ttatgtgtg ttctgtgt</p> <p>ttccagcctg gttctgtgt tggatctct ctgtgtgtcc cgggaagatgc cgtgtgtgac gctgtgtgt accalctgtc</p>	P	Homo sapiens
688	194989	MrgX4 G Protein-Coupled Receptor	AY042216	<p>tgcatgtct tcttctct ccatgatalga ccatgtcttag tcacagatgt gtaacaaca cctcttgtg tatcgaatt cctccaccig</p> <p>aaagaaaatt tcagaccag gataatata tcalcgggtc caaagccctg gcccggatgag tgggggtgti ttgaltctaa</p> <p>tgtattccc atgtacagcac agaatctgtg tggcagtaga agatgtcag gcttcagagt caacagaaac tggatttcaa</p> <p>acttgatttg aggaacccca cctttgttaa gtagcttatt atctgtgagc ctctgtcti ctcttita aatgagaca gtaaatccca</p> <p>tacggcaggg tggtagggag aatcagatg atacagatg gtagacatg ctgttgttg ttccaggggg caccagacia</p> <p>gagtttctga gcatgtalcc aaacctcca gttctggta caaaacigac accaalcaac ggaagtgtgg agactcctg</p> <p>ctacaatcag accgtgagct tcacgtgtct gactgtcalt atttcccttg tggagctgac aggaacagcg gtagtgtct</p> <p>ggctcttggg ctac-gcatg cgacaggaacg ctgtctocat ctacatctc aaactggocg cagcagacti ccttctctc</p> <p>agcttccaga ttatagctc gcatatagc ctalcaata tcagccatct cctccgcaaa atcctgttt ctgtgtgac ctttccctac</p> <p>tttacagggc tgaatgtct gtagcgcalt agcaccagcg gcgtcgtct gtttgtgtg ccatctgtt accgtgtccg</p> <p>cggcccca cactgtcag cgtgtgtgtg tgcctgtct tggggctgt cctctgti tagtgtctg gtaggtgtgt tctgtacti</p> <p>cctgtttagt ggtgtgtgt clagtgtgt gaaacgtca gattcalcc cagtgtgtg gctgtatt ttatgtgtg ttctgtgt</p> <p>ttccagcctg gttctgtgt tggatctct ctgtgtgtcc cgggaagatgc cgtgtgtgac gctgtgtgt accalctgtc</p>	A	Homo sapiens

689	194989	MrgX4 G Protein-Coupled Receptor	AAK91807.1	tcacagtgct ggcttctctc ctctgcggcc tgcctctcgg cacttgcggg gcccaatttt acaggatgca cctgaatttg gaagcttat atgtcatgt ttacttggt tgcattgccc tgcctctct aaacagtagt gccaacoccca tcaattact ctctgagggc tcccttaggc agcgtcaaaa taggcagaac ctgaagcttgg ttccacagag agctctgcag gacaagcctg aggtgggataa aggtgaaggg cagctctctg aggaagcctt ggaagctctg ggaagcagat tggggccatg agggagagoc tctgocctgt cagtcagacg ggactttgag agcaacacig tcttgccacc ctgacaattt acalgcgttt ttcttaggtt ttgcctcag aatgtctca ggggtaact aaggtctca aataatgtt tatcaact gacagtga gttttaccc atgggaagca ttactctgac agttacaagt ttgg MDPTVPVFGT KLTPINGREE TPCYNQTLST TLTCTIISLV GLTGNAVVLW P Homo sapiens LLGYRMRRNA VSIYLNLA AADFLFSFQI IRSPRLINI SHLRKILVS VMTFPYFTGL SMLSIASTER CLSVLWPIWY RCRRPTHLSA VVCVLLWGLS LLFSMLEWRF CDFLSGADS SWCETSDIFP VAWLFLCVV LCVSSLVLLV RILCGSRKMP LTRLVVTILL TVLVFLCGL PFGILGALY RMHLNLEVLV CHVYLVCMSL SSLNSSANPI IYFFVGSFRQ RQNRQNLKLV LQRALQDKPE VDKGEGQLPE ESELGSGSRL GP atgaacaaca alacaacatg taitcaaca tctatgatct ctccatggc ttacaacatc attacatcc tcccttgat tgttggttt ttggaaaca ctctctctca atggatatt ttacaataaa taggtataaa aacatcaacg cacatctacc tgcacaacct tggacttgca aacttacttg tgcacagtc calgcctttc algagatct atttctgaa aggtttccaa tgggaataac aatctgctca atgcagagtg gtcaatttc tgggaactct alccatgcat gcaagtagt tgcagctct cttaattta agttggttg ccataagccg ctatgctacc ttaatgcaaa aggatctctc gcaagagact acttcatgt atgagaaaat attttatggc cattactga aaaaatttc ccagoccaa tttgtagaa aactatgcat ttacatagg ggaagttgtac tgggcataat cattccagt accgtatct actcagatc agaggctaca gaaggagaag agagccatg ctacaatcgg cagatggac tagggccat gatctctcag atgcaggctc tcaitggaa cacatttatt ggaatttct ttttagtagt actaacatca tactactcti ttgtagcca tctgagaaaa alaaagaacct gtacgtccat tatggagaaa gatttgactt acagttc-igt gaaaagacat cttttggta tccagattct actaaagt ttgcttcttc ctatagtat tttaaaccc attttttatg ttacacca aagagataac tgcagacaat tgaattatt aatagaaaa aaaaacattc tcaactgtct tgcctcggcc agaagtagca cagaccccat tatattctt ttatagaca aaacattcaa gaagacacta tataatctct ttacaagtc taattcagca calatgcaat catatggttg a MNNNTTICQP SMISSMALPI IYLLCIVGV FGNTLSQWIF LTKIGKKTST HYLSHL VTA P Homo sapiens NLLVCSAMPF MSYFLKGFQ WEYQSAQCRV VNFLGTLMSH ASMFVSLIL SWAISRYAT LMQKSSQET TSCYEKIFYG HLLKKFRQPN FARKLCIYW GVVLGIIIPV TVYYSVIEAT EGEESLCYNR QMELGAMISQ IAGLIGTTFI GFSFLVVLTS YYSFVSHLRK IRTCTSIMK DLTYSSVKRH LLVIQILLIV CFLPYSIFKP IFYVLHQRDN CQQLNYLIET KNILTCLASA RSSTDPIFL LLDKTFKKTL YNLFTKNSA HMQSYG
690	195015	G Protein- Coupled Receptor GPR82	AF411111	atgaacaaca alacaacatg taitcaaca tctatgatct ctccatggc ttacaacatc attacatcc tcccttgat tgttggttt ttggaaaca ctctctctca atggatatt ttacaataaa taggtataaa aacatcaacg cacatctacc tgcacaacct tggacttgca aacttacttg tgcacagtc calgcctttc algagatct atttctgaa aggtttccaa tgggaataac aatctgctca atgcagagtg gtcaatttc tgggaactct alccatgcat gcaagtagt tgcagctct cttaattta agttggttg ccataagccg ctatgctacc ttaatgcaaa aggatctctc gcaagagact acttcatgt atgagaaaat attttatggc cattactga aaaaatttc ccagoccaa tttgtagaa aactatgcat ttacatagg ggaagttgtac tgggcataat cattccagt accgtatct actcagatc agaggctaca gaaggagaag agagccatg ctacaatcgg cagatggac tagggccat gatctctcag atgcaggctc tcaitggaa cacatttatt ggaatttct ttttagtagt actaacatca tactactcti ttgtagcca tctgagaaaa alaaagaacct gtacgtccat tatggagaaa gatttgactt acagttc-igt gaaaagacat cttttggta tccagattct actaaagt ttgcttcttc ctatagtat tttaaaccc attttttatg ttacacca aagagataac tgcagacaat tgaattatt aatagaaaa aaaaacattc tcaactgtct tgcctcggcc agaagtagca cagaccccat tatattctt ttatagaca aaacattcaa gaagacacta tataatctct ttacaagtc taattcagca calatgcaat catatggttg a MNNNTTICQP SMISSMALPI IYLLCIVGV FGNTLSQWIF LTKIGKKTST HYLSHL VTA P Homo sapiens NLLVCSAMPF MSYFLKGFQ WEYQSAQCRV VNFLGTLMSH ASMFVSLIL SWAISRYAT LMQKSSQET TSCYEKIFYG HLLKKFRQPN FARKLCIYW GVVLGIIIPV TVYYSVIEAT EGEESLCYNR QMELGAMISQ IAGLIGTTFI GFSFLVVLTS YYSFVSHLRK IRTCTSIMK DLTYSSVKRH LLVIQILLIV CFLPYSIFKP IFYVLHQRDN CQQLNYLIET KNILTCLASA RSSTDPIFL LLDKTFKKTL YNLFTKNSA HMQSYG
691	195015	G Protein- Coupled Receptor GPR82	AAL26482	atgaacaaca alacaacatg taitcaaca tctatgatct ctccatggc ttacaacatc attacatcc tcccttgat tgttggttt ttggaaaca ctctctctca atggatatt ttacaataaa taggtataaa aacatcaacg cacatctacc tgcacaacct tggacttgca aacttacttg tgcacagtc calgcctttc algagatct atttctgaa aggtttccaa tgggaataac aatctgctca atgcagagtg gtcaatttc tgggaactct alccatgcat gcaagtagt tgcagctct cttaattta agttggttg ccataagccg ctatgctacc ttaatgcaaa aggatctctc gcaagagact acttcatgt atgagaaaat attttatggc cattactga aaaaatttc ccagoccaa tttgtagaa aactatgcat ttacatagg ggaagttgtac tgggcataat cattccagt accgtatct actcagatc agaggctaca gaaggagaag agagccatg ctacaatcgg cagatggac tagggccat gatctctcag atgcaggctc tcaitggaa cacatttatt ggaatttct ttttagtagt actaacatca tactactcti ttgtagcca tctgagaaaa alaaagaacct gtacgtccat tatggagaaa gatttgactt acagttc-igt gaaaagacat cttttggta tccagattct actaaagt ttgcttcttc ctatagtat tttaaaccc attttttatg ttacacca aagagataac tgcagacaat tgaattatt aatagaaaa aaaaacattc tcaactgtct tgcctcggcc agaagtagca cagaccccat tatattctt ttatagaca aaacattcaa gaagacacta tataatctct ttacaagtc taattcagca calatgcaat catatggttg a MNNNTTICQP SMISSMALPI IYLLCIVGV FGNTLSQWIF LTKIGKKTST HYLSHL VTA P Homo sapiens NLLVCSAMPF MSYFLKGFQ WEYQSAQCRV VNFLGTLMSH ASMFVSLIL SWAISRYAT LMQKSSQET TSCYEKIFYG HLLKKFRQPN FARKLCIYW GVVLGIIIPV TVYYSVIEAT EGEESLCYNR QMELGAMISQ IAGLIGTTFI GFSFLVVLTS YYSFVSHLRK IRTCTSIMK DLTYSSVKRH LLVIQILLIV CFLPYSIFKP IFYVLHQRDN CQQLNYLIET KNILTCLASA RSSTDPIFL LLDKTFKKTL YNLFTKNSA HMQSYG

SEQ ID	LSID	Gene	Source ID	Sequence	Code	Species
NO:					Name	
1	127	5-HT1A Receptor	NM_000524	atggatgtgc tcagccctgg tcagggaac aacacacacat caccacccgc tccctttgag accggcgga acactactgg tatctccgac gtgaccgtca gctaccaagt gatcacctct ctgtgctgg gcacgtcat ctctgcgcg gtgctggga atgcgtggt ggtggctgcc atgccttgg agcgtccct gcagaaagt gccaattatc ttattggctc ttggcggtc accgacctca tgggtcggt gtgtgtgctg cccatgtccg cgctgtatca ggtgctcaac aagtggacac tgggccaggt aacctgcgac ctgttcacgt ccctgcagct gctgtgctgc acctcatcca tcttgacct gtgcgcatc gcctggaca ggtactgggc catcacggac cccactgact acgtgaacaa gaggaagccc cggccgcgtg cgctcatctc gctcacttgg cttattggct tccctatctc tatccgccc atcctgggtt ggccacccc ggaagaccgc tcggaccccg acgcatgcac cattagcaag gatcatggtt acatatcta ttccaccttt ggagctttct acatccgct gctgtcatg ctggttctct atggcgcat attccgagct gcggcttcc gcaccgcaa gacgttcaaa aaggtggaga agccggagc ggacacccc catggagcat ctcccgccc gcagcccaa aagagtgtga atggagagtc ggggagcagg aactggaggc tggcggtgga gagcaaggct ggggtgtctc tgtgcgcaa tggcgcggtg aggcaagggt acgatggcg cgcctggag gtgatcgagg tgcacaggt gggcaactcc aaagagcact tgcctctgcc cagcgaggtt ggtcctacc ctgtgcccc cgcctcttc gagaggaaa atgagcgcaa cgcgagggc aagcgcaaga tggccttgc ccgagagagg aagacagtga agacgtggg catcatcatg ggcacctca tccctgtgtg gctgcccc ttcatcgtgg ctctgttct ccccttctgc gagagcagct gccactgcc caccctgttg ggcgccataa tcaattggct gggctactcc aactctctgc ttaacccctg catttacgca tacttcaaca aggactttca aaacgcgttt aagaagatca ttaagtgtaa cttctgcgc cagtga	A	Homo sapiens
2	127	5-HT1A Receptor	NP_000515.1	MDVLSPGQN NTTSPAPFE TGGNTTGISD VTVSYQVITS LLLGTLIFCA VLGNACVVAA IALERSIQNV ANYLIGSLAV TDLMSVLVL PMAALYQVLN KWTLGQVTCF LFIALDVLCC TSSILHLCAI ALDRYWAITD PIDYVNRTP RPRALISLTV LIGFLISIPP ILGWRTPEDR SDPDACTISK DHGYTIYSTF GAFYIPLLLM LVLYGRIFRA ARFIRKTVK KVEKTGADTR HGASPAQPK KSVNGESGR NWRLGVESKA GGALCANGAV RQDDGGALE VIEVHRVGN KEHLPPESEA GPTPCAPASF ERKNERNAEA KROMALARER KTVKTLGIM GTFILCWLPE FIVALVLPFC ESSCHMPTLL GAIINWLGYS NSLLNPVIYA YFNKDFQNAF KKIICKNFCR Q	P	Homo sapiens
3	128	5-HT1B Receptor	NM_000863	atggaggaaac cgggtgtgtca gtgcgctcca cgcgcgccc cgggctccga gacctgggtt cctcaagcca acttatactc tgcctcctcc caaaactgca gcgcaagga ctacatttac caggactcca tctccctacc ctggaagta ctgctgggtta tgcattatgg cctcatcacc ttggccacca cgctctccaa tgcctttgtg attgccacag tgcacggac cggaaactg cacaccccg ctaactact gatgcctct ctggcggtca cgcacctgt tgtgtccatc ctggtgatgc ccacagcac catgtacact gtcacggcc gctggacact gggccaggtg gtctgtgact tctggctgtc gtcggacatc acttgttga ctgcctccat cctgcacctc tgtgtcatcg ccctggaccg ctactgggc atcacggag ccgtggagta ctacgctaaa aggactccca agaggcggc ggtcatgac gcgctgtgt ggtctcttc catctctatc	A	Homo sapiens

4	128	5-HT1B Receptor	NP_000854.1	<p>tgcgtgccgc ccttctctg gcgtcaggct aaggccgaag agagggtgtc ggaatgcgtg gtgaacacg accacatcct ctacacggct tactcacgg tgggtgcttt ctactcccc acctgctcc tcatggcctt ctatggcgc atctagtag aagcccgctc ccgattttg aaacagacgc ccaacaggac cggcaagcgc ttgaccgag cccagctgat aaccgactcc cccggtcca cgtctcgggt cactctatt aactcgagg ttcccgagt gccagcgaa tcgggatctc ctgtgtatgt gaaccaagtc aaagtgcgag tctcgcgcg cctgctggaa aagaagaaac tcatggcgc tagggagcgc aaagcacca agacctagg gatcattttg ggagccttta ttgtgtgtg gctacccttc ttcatcatct cctagtagt gcctatctgc aaagatgcct gctggttcca cctagccatc ttgactctt tcacatggct gggctatctc aactccctca tcaaccccat aatctatacc atgtccaatg aggactttta acaagcattc cataaactga tacgttttaa gtgcacaagt tga</p>	Homo sapiens
5	129	5-HT1D Receptor	NM_000864	<p>agccaaatgt gtggaggtct gtgggaagag agagccacct agcatgtccc cactgaacca A gtcagcagaa ggccttcccc aggagcctc caacagatcc ctgaatgcca cagaaacctc agagcttgg gatccagga cctccagga gctcaagtc tcccttggc tggctcttc cgtcatcaca ctagccacag tccctccaa tctctctga tgcaccacca tcttactcac caggaagctc cacacccct ccaactacct gattggctcc ctggccacca cgcacctt ggtttccatc ttggtaatgc ccatcagcat cgcctatacc atcacceaca cctggaaatt tggccaaatc ttgtgtgaca tctggctgtc ctctgacatc acgtgctgca cagcctccat cctgcatctc tgtgtcatg cctgggacag gtactgggca atcacagatg ccttggaaata cagtaaacgc aggaaggctg gccacgggc caccatgac gccattgtct gggccatctc catctgcatc tccatcccc cgtcttctg gcggcaggcc aagggccagg aggagatgtc ggactgtctg gtgaacacct ctcatatct atctagccgg atctacccgg ctgcccggaa ctacattccc tcggtgtgct tcatcatct atctagccgg atctacccgg ctgcccggaa ccgcatctct aatccacct cactctatgg gaagcgttc accacggcc acctcatcac aggctctgcc gggtctcgc tctgctcgt caactccagc ctccatgagg ggcactcgca ctcggctggc tccccctct ttttcaacca cgtgaaaaatc aagcttgcgt acagtgcct ggaacgcaag aggatctctg ctgctcgaga aaggaagcc actaaaatcc tgggcatcat tctgggggccc ttatacatct gctggctgccc ctctctctgt gtgtctctgg tctccccc ctgcccgggac tctctgtgga tccacccggc gctcttggc ttcttccact ggtagggcta tttaaaactc ctcatcaatc caataatcta cactgtgttt aatgaagagt ttcggcaagc ttttcagaaa attgtccct tccggaagc ctcctagct tatctgata ggtaaaagaa msplnqsaeg lpoqasnrl natetseawd prtloalkis lavlsvitl atvlsnafvl P ttilltrklh tpanylglsl attdllvsil vmpisiayti thtwnfgqil cdiwlsddit cctasilihlc vialdrywai tdaleyskrr taghaatmia iwaaisicis ipplfwrqak</p>	Homo sapiens
6	129	5-HT1D Receptor	NP_000855.1	<p>msplnqsaeg lpoqasnrl natetseawd prtloalkis lavlsvitl atvlsnafvl P ttilltrklh tpanylglsl attdllvsil vmpisiayti thtwnfgqil cdiwlsddit cctasilihlc vialdrywai tdaleyskrr taghaatmia iwaaisicis ipplfwrqak</p>	Homo sapiens

7	130	5-HT1E Receptor	NM_000865	<p> AQEMSDCLV NTSQISYTIY STCGAFYIPS VLLIILYGRH YRAARNRIIN PPSLYGKRFT TAHLITGSAG SSLCSLNSSL HEGHSHSAGS PLFFNHVVIK LADSALERKR ISAARERKAT KILGIILGAF IICWLPEFV SLVLPICRDS CWIHPALDFE FTWLGYLNSL INPIIYTVFN EEFRAQFKI VPRKAS atcgaatgtt gagagaagca gtgtctgtat ccagctcagg agaaaaagga gcgggttccg A agtgagactt ctgagctcag ctggagctgc cgggttggcc agtcggcgc gcgtgcacgc accgtccaca agagtctcag tcgcccaggc tggagtgcag cagcacagtc tcacctcatt gaaacctccg cctcccgggt tcgcggttcc tcgcccag cttccagta gctgggattg caggcaactca ccacctgccc cggctaattt ttgaaattt tagtggagac gggatttcac catgttggcc atgtgtgtct tgaacccccg acctggatg attcgccccg ctcgccctcc caaagtgtcg gaattacagg cgaaccttca ctcagaagaa atgtgtggc ccttccccctt accaaacagaa aatggaacac aagagaccac atagctgaac aaattatag ctccttacaa gtgagaaacc ttgagggcta catagtcttc agccaaagga aataaacca cagcttctcc acagtgtaga ctgaacaag gaaacatga acatcacaa ctgtaccaca gagccacga tggctataag acccaagacc atcactgaga agatgctcat ttgcatgact ctggtgtgca tcaccacct caccacgttg ctgaaactgg gtctctggc cgtgacggac ctctgtgtgg agctccacca gctgccaac tacctaactc atattgtcat gtagctgtg aagcttgggt cagtgtcgt catgccccctg agcatcatct acattgtcat gtagctgtg aagcttgggt acctctctg tgaggtgtgg ctgagtgagg acatgacctg ctcacacctg tccatctccc acctctgtgt cattgccccg gacagtgact gggccatcg caatgctatt gaatacgcca ggaagaggac gccaagagg gccgcgtga tgatctctac cgtctggacc atctccattt tcactccat gcccccctctg ttctggagaa gccaccgccc cctaagcccc ccccctagtc agtgcacct ccagcacgac catgttatct acaccattta ctccacgtg ggtgcgtttt atatccccct gactttgata ctgattctct attaccggat ttaccacgcg gccaaagacc ttaccagaa aaggggatca agtcggcact taagcaacag aagcacagat agccagaatt ctttggaaag ttgtaaaact acacagactt ccatcaggat ccccccttc gacaaatgatc ctaccacaga gttgaaaag ttccatgccc ctatcaggat ccccccttc gacaaatgatc tagatcacc aggagaacgt cagcagatct ctatcaggat ggaacggaag gcagcacgca tcctggggct gattctgggt gcattcattt tatcctggct gccatttttc atcaaaagagt tgatttggg tctgagcatt tacaccgtgt cctcggaagt ggcgacctt ctgacgtggc tcggttatgt gaattctctg atcaacctc tgctctatc gagttttaat gaagacttta agctggcttt taaaaagctc attagatgcc gagagcatal ttagactgta aaaaagctaaa aggcacgact tttccagag cctcatgagt ggatgggggt aagggtgca acttattaat ccttgaacat acttggttca ggagagttg taagtattg tggtctgtt tcttgtttg tttgtttgt ttgttctgt ttgttgagg attgtattt ggctgtgtg tttctacctc tggtcttctc ttgtatcat aatttcaaat aacattatc atcaaaaac aaaaaaaa aaaaaaaa </p>	Homo sapiens
8	130	5-HT1E Receptor	NP_000856.1	<p> MNITNCTTEA SMAIRPRTIT EKMLICMTLV VITLTLTLN LAVIMAIGTT KKLHQPNLYL P ICSLAVTDLL VAVLVMPLSI IYIVMDRWKL GYFLCEVWLS VDMTCCTCSI LHLCVIALDR YWAITNAIEY ARKRTAKRAA LMILTWTIS IFISMPLFW RSHRRLSPPP SQCTIQHDHV IYTIYSTLGA FYIPLTLILI LYRIYHAAK SLYQKRGSSR HLSNRSTDSQ NSFASCKLTQ </p>	Homo sapiens

9	131	5-HT1F Receptor	NM_000866	<p>TFCVSDFTS DPTTEFEKH ASIRIPFDN DLDPGERQQ ISSTRERKAA RILGLILGAF ILSWLPFFIK ELIVGLSIYT VSSEVADFLT WLGYNLSLIN PLYTSFNEF FKLAFFKLIR CREHT</p> <p>atggatttct taaattcatc tgatcaaaac ttgacctcag aggaactgtt aaacagaatg A ccatcaaaa ttctgtgtgc cctcaactctg tctgggctgg cactgatgac acaactatc aactcccttg tgatcgctgc aattattgtg acccggaagc tgcaccatcc agccaattat ttaaattgtt ccttgcaagt cacagatttt cttgtggctg tctgtgtga ccccttcagc attgtgtata ttgtgagaga gagctggatt atggggcaag tggctgtga catttggctg agtgttgaca ttacctgtcg cacgtgctcc atcttgcatc tctcagctat agctttggat cggatcagag caatcacaga tgctgttgag tatgccagga aaaggactcc aaagcatgct ggcattatga ttacaatagt ttggattata tctgttttta tctctatgcc tctctattc tggaggcacc aaggaactag cagagatgat gaatgcata tcaagcacga ccacattgtt tccaccattt actcaacatt tggagctttc tacatccac tggcattgat tttgatcctt tactacaaaa tatatagagc agcaaaagaca ttataccaca agagacaagc aagtaggatt gcaaagagag agtggaatgg ccaagtcctt ttggagagtg gtgagaaaag cactaaatca gtttccacat cctatgtact agaaaagctc ttatctgacc catcaacaga ctttgataaa attcatagca cagtgaagag tctcaggtct gaattcaagc atgagaaatc ttggagaagg caaaagatct caggtacaag agaacggaaa gcagccacta ccctgggatt aatcttgggt gcatttgtaa tatgttggtc tcctttttt gtaaaagaat tagttgttaa tgtctgtgac aaatgtaaaa tttctgaaga aatgtccaat ttttggcat ggcctgggta tctcaattcc cttataaatc cactgatatta cacaaatctt aatgaagact tcaagaaagc attccaaaaa cttgtcgat gtcgatgtta g</p>	Homo sapiens
10	131	5-HT1F Receptor	NP_000857.1	<p>MDFLNSDQN LTSEELNRM PSKILVSLTL SGLALMTTII NSLVIAAIIV TRKLHPANY P LICSLAVTDF LVAVLMPFS IVYIVRESWI MGQVCDIWL SVDITCCTCS ILHLSAIALD RYRAITDAVE YARKRTPKHA GIMITIVWII SVFISMPPLF WRHQGTSRDD ECIKHHDHIV STIYSTFGAF YIPLALIL YKIYRAAKT LYHKRQASRI AKEVNGQVL LESGEKSTKS VSTSYVLEKS LSDPSTDEFK IHSTVRSIRS EFKHEKSWRR QKISGTRERK AATTLGLILG AFVICWLPEF VKELVNVCD KCKISEMSN FLAWLGYLNS LINPLIYTF NEDEKKAFOK LVRRC</p>	Homo sapiens
11	132	5-HT2A Receptor	NM_000621	<p>gaattcgggt gagccagctc cgggagaaca gcatgtacac cagcctcagt gttacagagt A gtgggtacat caagtggaat ggtgagcaga aactataacc tgttagtctc tctacacctc atctgctaca agttctggct tagacatgga tattctttgt gaagaaaata cttctttgag ctcaactacg aactccctaa ttcaattaaa tgatgacacc aggcctctaca gtaatgactt taactctgga gaagctaaca cttctgatgc atttaactgg acagtgcact ctgaaaaatcg aaccacattt tctgtggaag ggtgccttc accgtcgtgt cctccttac ttcactctca ggaaaaaac tggctgctct tactgacagc cgtagtgtatt attctaacta ttgctggaaa catactctgc atcatggcag tgtccctaga gaaaagctg cagaatgcca ccaactattt cctgatgtca cttgccatag ctgatatgct gctgggtttc cttgtcatgc ccgtgtccat gttaaccatc ctgtatgggt accggtggcc tctgcccagc aagctttgtg cagtctggat ttacctggac gtgctcttct ccacggcctc catcatgcac ctctcgcca tctcgctgga ccgctacgtc gccatccaga atcccatcca ccacagcgc ttcaactcca gaactaaggc</p>	Homo sapiens

atttctgaaa atcattgtgtg ttggaccat atcagtaggt atatccatgc caataccagt
 ctttgggcta caggacgatt cgaaggtctt taaggagggt agttgcttac tcgcccgatga
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 ggaggctgag atggaggatg cacttgagc cagaggtttg agaccaactc gggtaacaaa
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 actgtgtccc cagctacagg ggaggctgag acgcaaggat cacttgagcc cagaagctca
 aggtgcaggt gagccaagtt cacaccactg ccatttctc ctgggcaaca gagtgaagcc
 ctatcacccc gaattc

12	5-HT2A	NP_000612.1	MDILCENTS LSSTNSLMQ	LNDDRLYSN	DENSGEANTS	DAFNWTVDS	NRTNLSCEG	P	Homo
132	Receptor		LSPSCLSLH LQKNWSALL	TAVVIILTIA	GNILVIMAVS	LEKKLQATN	YFLMSLAID		sapiens

13	5-HT2B Receptor	NM_000867	<p>MLLGLVMPV SMLTILYGR WPLPSKLCV WYLDVLFST ASIMHLCAIS LDRYVAIQNP IHHSRNSRT KAFKLIWV TISVGISMPI PVFGLQDDSK VFKEGSCLLA DDFVLIGSF VSFFIPLTIM VITYFLTKS LQKEATLCVS DLGTRAKLAS FSFLPQSSLS SEKLFQRSIH REPGSYTGRR TMSISNEQK ACKVLGIVFF LFVVMCPFF ITNIMAVICK ESCNEDVIGA LLNVFWIGY LSSAVNPLVY TLFNKTYRSA FSRYIQCOYK ENKKPLQLIL VNTIPALAYK SSQLQMGQKK NSKQDAKTD NDCSMVALGK QHSEAEKDN SDGVNEKVSC V</p> <p>tactaaccat gctgaccact gtctggaacg ggattgaatc acagaaaaac agcaaatggc A tctctcttac agagtgtctg aacttcaag cacaattcct gagcacattt tgcagagcac ctttgttcaac gttatctctt ctaactggctc tggattacag acagaaatcaa taccagagga aatgaaacag attgttgagg aacagggaat taccctgtt tctaatgtcc ttggcgggtg ctgatttgc catggtgata ataccacaa ttggtggaaa tctaatgtcc ttggcgggtg ctgatttgc gaagaagctg cagtatgcta caattactt cttgacaata attgttgagg ctatgtggcc ggttggattg tttgtgatgc caattgccc ttctctgtac atttctttt caaccgcac cctccactt gttctatgac ctgctgtgtt ttctctgtac ttctctttt caaccgcac catcatgcat ctctgtgcca tttcagtgga tctgtacata gccatcaaaa agcacaatcca ggccaatcaa tataactcac gggctacagc attcatcaag attacagtgg tgtggttaat ttcaataggc attgccattc cagtccttat taaagggata gagactgatg tggacaaacc aaacaatc acctgtgtgc tgacaaaagga acgttttggc gatttcacgc tctttggctc actggctgcc ttcttcacac ctcttgcaat tatgattgtc acctactttc tcaatatcca tgctttacag aagaaggctt acttagtcaa aaacaagcca cctcaagccc taacatgggt gactgtgtct acagttttcc aaaggatga aacacctgc tctgaccgg aaaagtggtc aatgctggat ggtctcga aaggacaaggc tctgcccac tctggtgatg aaacacttat gcgaagaaca tccacaattg ggaacaaagc agtgcagacc atttccacg aacagagagc ctcaagggtc ctagggttg tgttttctt ctctttgtc attgtgtgc cttctttat tacaatatata actttagttt tatgtgattc ctgtaaccaa actactctcc aatgctcct ggagatatatt gtgtggatag gctatgttc ctcaggagtg aatcctttg tctacacct cttcaataag acatttcggg atgcatttg ccgatatatc acctgcaatt accgggcccac aaagtcagta aaactctca gaaacgctc cagtaagatc tacttccgga atccaatggc agagaactct aagtttttca agaaacatgg aattcgaaat gggattaaac ctgccaatga ccagagtcca atgaggctcc gaagttcaac cattcagctc tcaatcaatca ttctactaga tacgctctc ctactgaaa atgaaggta caaaactgaa gagcaagta gttatgtata gcagaactgg cagttgtcat caaacataat gatgagtaag atgatgaatg agatgtaaat gtgcccagaa tatattatat aaagaatttt ctgtacata tcaaatcatc tctttaacct aagatgaag tattaagaat atctaattt cctaatttg acaagattat tccatgagga aaataattt atatagtac aaatgaaaac aatccagcac tctggttaaa ttttaaggta ttcgaatgaa ataaagtcaa atcaataaat ttcaggcttt aaaaaaaa</p>	Homo sapiens
14	5-HT2B Receptor	NP_000858.1	<p>MALSYRVEL QSTIPEHILO STFHVISN WSGLQTESIP EEMKQIVEEQ GNKLHWAALL P ILMVIPTIG GNTLVILAVS LEKKLQYATN YFLMSLAVD LVLGLFVMPI ALLTIMFEAM WPLPLVLCPA WLFLDVLFT ASIMHLCAIS VDRYIAIKK IQANQYNSRA TAFIKITVW LISIGIAIPV PIKGIETDVD NPNNITCVLT KERFGDFMLF GSLAAFFTPL AIMIVTYFLT IHALQKKAYL VKNKPPQRLT WLTVSTVFQR DETPCSSPEK VAMLDGSRKD KALPNSGDET</p>	Homo sapiens

15	134	5-HT2C Receptor	nm_000868	LMRRTSTIGK KSVQTISNEQ RASKVLGIVF FLFLMMCPFF FITNITVLVC DSCNQTTIQM LLEIFWIGY VSSGVNPLVY TLENKTRDA FGRIYTCNRYR ATKSVKTLRK RSSKIYFRNP MAENSKFFKK HGIRGINPA MYQSPMRLRS STIQSSIIIL LDLLLLTENE GDKTEEQVSY V	accgcgcga ggtaggcgt ctggtgcttg cggagagcgc ttcttctc agatgcaccg A atcttccga tactgccttt ggagggcta gattgtagc ctggtgtgct ccatggcct gccttgccc ttactgccc attgcatacg aactctctt ctgtctgtac atcgtgtcg tcggagtcgt cgcgatacgt gtggcgctcg tgtgatggcc ttgctccgt tagagtagtg tagttagtta ggggcaacg aagaagaaag aagacgat tagtgcagag atgctggagg tggtcagtta ctaagctaga gtaagatagc ggagcgaata gagcaaac tagccggggg ggcacggtc acccaaggga ggtcgactcg ccggcgcttc ctatcgccg gagctccctc cattctctc cctcgcgcga ggcgcgaggt tgcggcgccg agcgagcgc agctcagcgc accgactgcc gcgggctccg ctggcgaggt gcagccgagt ccgtttctcg tctagctgcc gcgcggcga ccgtgctcg gtcttctcc cggacgtag tgggttatca gctaacacc gcgagcatct ataacatagg ccaactgacg ccatcctca aaaaacta aagatgata tgatgaacct agcctgttaa ttctgtctt tcaatttaa acttgggtg cttaagactg aagcaatcat ggtgaacctg aggaatgcgg tgcattcatt ccttgtgac ctaattggcc tattggttg gcaatgtgat atttcttga gccagtagc agctatagta actgacattt tcaatacctc cgatggtgga cgcttcaat tccagagcgg ggtacaaaac tggccagcac ttcaatcgt catcataata atcatgacaa taggtggcaa ctccctgtg atcatggcag taagcatgga aaagaaactg cacaatgcca ccaattactt cttaatgtcc ctgaccattg ctgatatgct agtgggacta ctgttcacg cctgtctct cctggcaatc ctttatgatt atgtctggcc actacataga tatttggcc ccgtctggat ttctttagat gttttattt caacagcgtc catcatgcac ctctgcgta tatcgctgga tcggtatgta gcaatacgt atcctattga gcatagcgt ttcaattgc ggactaagg catcatgaag attgctattg tttgggcaat ttctataggt gtatcagttc ctatccctgt gattggactg agggacgaag aaaagtggtt cgtgaacaac acgacgtcg tgctcaacga ccaaatctt gtcttattg ggtcctcgt agctttctc ataccgtga cgattatgt gattacgtat tgcctgacca tctacgttct gcgcgcgaca gctttgatgt tactgcacgg ccacaccgag gaaccgcctg gactaagtct ggatttctg aagtgtgca agaggaatac ggccgaggaa gagaactctg caaacctaa ccaagaccag aacgcacgc gaagaaagaa gaaggagaga cgtcctaggg gcaccatgca ggctatcaac aatgaaagaa agcttcgaa agtccctggg attgtttct ttgtgttct gatcatgtg tgccattttt tcattacca tttctgtct gtctttgtg agaagtcctg taaccaaag ctcatggaaa agctctgaa tgtgttgtt tggattggct atgtttgttc aggaatcaat cctctgggt atactctgt caacaaaatt taccgaagg cattctcaa ctatttgggt tgcaattata agtagagaa aaagcctcct gtcaggcaga ttccaagagt tgcgcacct gctttgtctg ggaggagct taatgttaac atttatcggc ataccaatga accggtgatc gagaaagcca gtgacaaatg gcccggtata gagatgcaag ttgagaattt agagttacca gtaaatcct ccagtggtgt tagcgaaagg attagcagt tgtgagaag aacagcacag tcttttcta cggtaacaag tacatatga ggaatttt cttctttaat ttttctgttg gtcttaacta atgtaaatat tgctgtctga aaaagtgtt	Homo sapiens
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16	134	5-HT2C Receptor	NP_000859.1	<p>ctaattcctg tatgttatcc actacaggtt ttatgagact tcctattaat ttattaaatt tattaaatgt tgaaaaaaa aaaaaaaa aaaa VIIIIMTIGG NILVIMAVSM EKKLNATNY FLMSLAIDM AAVTIDIFNT SDGGRFKFPD GVQNPALSI P PLPRYLCPW ISLDVLFSTA SIMHLCAISL DRYVAIRNPI EHSRFSRTHK AIMKIAIYVA ISIGVSVPIP VIGLRDEEKV FVNNTTCVLN DNFVPLTISF VAFFIPLTIM VITYCLTIYV LRRQALMLLH GHTEEPPLS LDFLKCCKRN TAEENSANP NQDQNRARRK KKERRPRGTM QAINNERKAS KVLGIVFFVF LIMWCPFFIT NILSVLCKS CNQKLMKILL NVFVWIGYVC SGINPLVYTL FNKIYRRAPS NYLRNRYKVE KKPPVRQIPR VAATALS GRE LNVNIYRHTN EPVIEKASDN EPGIEMQVEN LELPVNPSV VSERISSV</p>	Homo sapiens
17	136	5-HT4 Receptor	NM_000870	<p>cgggtccttat ttcctgtaat ggacaaactt gatgctaag tgagttctga ggagggtttc A gggtcagtgga agaagtggt gctgctcacg ttctctcga cggttatcct gatggccatc ttggggaacc tgctggtgat ggtggctgtg tgctgggaca ggcagctcag gaaaataaaa acaaattatt tcattgtatc tcttgctttt gcggatctgc tggtttcggt gctggtgatg cccttggtg ccatgagct ggttcaagac atctggattt atggggaggt gttttgtctt gttcggacat ctctggacgt cctgctcaca acggcatcga ttttccact gtgctgcatt tctctggata ggtattacgc catctgctgc cagcctttgg tctataggaa caagatgacc cctctgcgca tcgcattaat gctgggaggg tgctgggtca tccccacgt tatttctttt ctccctataa tgcaaggctg gaataacatt ggcataatg attgataga aaagaggaag ttcaaccaga actctaactc tacgtactgt gtcttcattg tcaacaagcc ctacgcctc acctgctctg tgggtgacct ctacatccca tttctcctca tgggtcctgc ctattaccgc atctatgtca cagctaagga gcatgccat cagatccaga tgttacaag ggcaggagcc tctctcgaga gcaggcctca gtcggcagac cagcatagca ctcatgcct gaggacagag accaaagcag ccaagacct gtgcatactc atgggtgct tctgctctg ctgggacca ttctttgtca ccaatattgt ggateccttc atagactaca ctgtccctgg gcagggtggtg actgcttcc tctggctcgg ctatatcaat tccgggttga accctttct ctacgcctc ttgaataagt cttttagacg tgccttctc atcatcctc gctgtgatga tgagcgtac cgaagacctt ccattctggg ccagactgtc ccttggtcaa ccacaacct taatggatcc acacatgtac taagggatgc agtgagtggt ggtggccagt gggagagtc gtgtcacccg ccagcaactt ctcttttggt ggctgctcag cccagtgaca cttaggcccc tgggacaatg accagaaga cagccatgcc tccgaagag ggcagggtcc taagctgctg cttgtgcgcg actgcacccg gcattctctt cacctgagc tttccgtccg ccagtgccag aacccggtgc tcgctggg</p>	Homo sapiens
18	136	5-HT4 Receptor	NP_000861.1	<p>MDKLDANVSS EEGFGSVEKV VLLTFLSTVI LMAILGNLLV MVAVCWDRQL RKIKTNYFIV P SLAFADLIVS VLVMPFGAIE LVQDIWIYGE VFCLVRTSLD VLLTTASIFH LCCISLDRY AICQPLVYR NKMTPLRIAL MLGGCWVPT FISFLPIMQG WNNIGIIDLI EKRKFQNSN STYCVFVNK PYAITCSVA FYIFLLMVL AYRIYVTA EHAHQIOMLQ RAGASSESRP QSADQHSRTHR MRTEKRAKT LCIIMGCFCL CWAPFFVTNI VDPFIDYTPV GQVWTAFLWL GYINSGLNPF LYAFLNKSFR RAFLIILCCD DERRRPSIL GQTVPCSTTT INGSTHVLDR AVECGGQWES QCHPPATSPL VAAQPSDT</p>	Homo sapiens
19	138	5-HT6	NM_000871	<p>cccagagcgc cccattcacc ccctcacc acctccccgc gttcccactt ccccgactc A</p>	Homo

21	139	5-HT7 Receptor	NM_000872	<p>ccatgggag cggcacacgg cggcgcatg atggacgtta acagcagcg cgcggcgac A</p> <p>ctctacgggc acctcgctc ttctctctg ccagaagtgg ggcggggct gccgacttg</p> <p>agccccagc gtggcgccga ccggtcgcg ggtctctggg cgcgcacct gctgagcgag</p> <p>gtgacagcca gccggggccc cactgggac gcgccccggg acaatgcctc cggctgtggg</p> <p>gaacagatca actacggcag agtcgagaaa gtgtgatcg gctccatcct gacgtccatc</p> <p>acgtgctga cgtcgcggg caactgcctg gtggtagctt cgtgtgctt gctcaagaag</p> <p>ctccgccagc cctccaaacta cctgatctg tcctggcgc tggccgacct ctcggtggct</p> <p>gtggcggtca tgcctctcgt cagcgtcacc gacctcatg ggggcaagt gatctttgga</p> <p>cacttttct gtaatgtctt catcgccatg gacgtcatgt gctgcacgc ctcgatactg</p> <p>acctgtgcy tgatcagcat tgacaggtac cttgggata caaggcccc cacataacct</p> <p>gtgaggcaga atgggaaatg catggcgaag atgattctt cgtctggct tctctccgcc</p> <p>tccatcacct tacctccact cttggatgg gctcagaatg taaatgatga taagggtgtg</p> <p>ttgatcagcc aggaatttgg ctatacgatt tactctaccg cagtggcatt ttatatcccc</p> <p>atgtccgtca tgcctttcat gtactaccag atttacaagg ctgccagaa gagtgtgcc</p> <p>aaacacaagt ttcctggctt cctcggagt gagccagaca cgtcatcgc cctgaatggc</p> <p>atagtgaagc tccagaagga ggtggaagag tgtgcaaac ttctgagact cctcaagcat</p> <p>gaaaggaaaa acatctccat ctttaagcga gaacagaaa gaggccacc cctggggatc</p> <p>atcgtcggg cctttacgt gtgctggctg ccattttcc tcctctcgac agccagaccc</p> <p>ttcatctgtg gcaattcctg cagctgcac ttatatatg ccttcttcaa ccgggacctg</p> <p>ctaggctatg caactctct cattaacctt ttatatatg ccttcttcaa ccgggacctg</p> <p>aggaccacct atcgcagct gctccagtc cagtaccgga atatcaacc gaagctctca</p> <p>gctgcaggca tgcataaagc cctgaagctt gctgagaggc cagagagacc tgagtttctg</p> <p>ctacaaaaatg ctgactactg tagaaaaaa ggtcatgatt catgattgaa agcagaacaa</p> <p>tgag</p>	Homo sapiens
22	139	5-HT7 Receptor	NP_000863.1	<p>DAPPDNASGP DLYGHLRSFL LPEVGRGLPD LSPDGGADPV AGSWAPHLLS EVTASPAPTW P</p> <p>VSLALADLSV GEQINYGRVE KVVIGSILT ITLLTIAGNC LVVISVCFVK KLRQPSNYLI</p> <p>YLGITRPLTY PVRQNGKMA KMILSVWLLS ASITLPLFG WAQNVNDDKV CLISQDEGYT</p> <p>IYSTAVAFYI PMSVLMFYI QIYKAARKSA AKHKFPGFPR VEPDSVIALN GIVKLOKEVE</p> <p>ECANLSRLK HERKNISIFK REQKAATLG IIVGAFVVCW LPFFLLSTAR PFICGTSCSC</p> <p>IPLWVERTFL WLGYANSLIN PFIYAFENRD LRTTYRSLQ CQYRNINRKL SAAGMHEALK</p> <p>LAERPERPEF VLQADYCRK KGHDS</p>	Homo sapiens
23	272	Adenosine A1 Receptor	NM_000674	<p>atgagtgta gaagtgtgaa ggtgacctgt tctgaatccc agagcctcct ctcctctgt A</p> <p>gaggttgga ggtgaggaag ggtttaacct cactggaag aatccctgga gctagcggt</p> <p>gctgaaggc tctgagtggt gggcacttg gacagaacag tcaggcagcc gggagctctg</p> <p>ccagctttg tgaccttggg ccggctggg agcgtctggg cgggagcccg agactatga</p> <p>gctgcccgc gttgtccaga gccagccca gccctacgc gcgccccg agctctgttc</p> <p>cctggaact tgggactgc cctgggacc cctgcccgc agcagcgagg atggtgcttg</p> <p>cctcgtgccc cttggtgccc gctgctgat gtgcccagc tgtgcccgc atgccgccct</p> <p>ccatctcagc ttccaggcc gctacatcg gctcagagt gctcagcc cttggtctctg</p> <p>tgccccggaa cgtgctggtg atctggcggtg tgaaggtgaa ccaggcgctg cgggatgcca</p>	Homo sapiens

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 agccctccc tctgttgaa attgggtgtg cctggctcc caaggaggc ccatgtgact
 aataaaaaa tgtgaacct

Receptor	Adenosine A2a Receptor	25	273	NM_000675	sapiens	Homo sapiens
LVIPIAILIN	IGPQTYFHTC	LMVACPVLIL	TQSSILALLA	IAVDRLVRVK	IPLRYKMVVT	
PRRAVAIAG	CWILSFVVL	TPMFGWNLS	AVERAWANG	SMGEPVTKCE	FEKVISMEYM	
VYFNFEVWL	PPLILMVLII	LEVFLIRKQ	LNKKVSASSG	DPQKYKGKEL	KIAKSLALIL	
FLFALSWLPL	HILNCITLFC	PSCHKPSILT	YIAIFLTHGN	SAMNPIVYAF	RIQKFRVTEL	
KIWNDFRCQ	PAPPIDLDP	EERPD				
tttgcagggtg	cctcaggaac	cctgaagctg	ggctgagcca	tgatgtgct	gccagaaccc A	
ctgcagagg	cctgggttca	ggagactcag	agtcctctgt	gaaaaagccc	tggagagcg	
ccccagcagg	gctgcacttg	gctcctgtga	ggaaggggct	caggggtctg	ggccccctcg	
cctgggccgg	gctgggagcc	agggggcg	ctgggcttga	gcaatggacc	gtgagctggc	
ccagcccg	tccgtgctga	gctgctctgt	cgtctgtggc	catgcccata	atgggctcct	
cgggtacat	cacgggtggag	ctggccattg	ctgtgctggc	catcctgggc	aatgtgctgg	
tgtgctgggc	cgtgtggctc	aacagcaacc	tgcagaacgt	caccaactac	tttgtgtgtg	
cactggcggc	ggccgacatc	gcagtgggtg	tgctggccat	cccccttggc	atcacatca	
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tcttgagga	tgtgttcccc	atgaactaca	tggtgtactt	caacttcttt	gcctgtgtgc	
tgggtccct	gctgtctatg	ctgggtgtct	atttgcgat	cttctggcg	gcgcgacgac	
agctgaagca	gatggagagc	cagcctctgc	cgggggagcg	ggcacggctc	acactgcaga	
aggaggtcca	tgctggcaag	tcactggcca	tcattgtggg	gctctttggc	ctctgtgtgc	
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cctggccctg	agactggggga	gtggctccaa	tagctctctg	ccaccacac	accactctcc	
ctagactctc	ctagggttca	ggagctgctg	ggccccagag	tgacatttga	cttttttcca	
ggaaaaatgt	aagtgtgagg	aaaccccttt	tattttatta	cttttcactc	tctggctgct	
gggtctgcg	tcgggtcctgc	tgctaacctg	gcaccagagc	ctctgccccg	ggagcctcag	
gcagtcctct	cctgtctgtca	cagctgccc	ccacttctca	gtccccaggc	catctcttgg	

26	Adenosine A2a Receptor	NP_000666.2	MPIMGSSVYI TVELAIAVLA ILGNVLVCWA VLNSNLQNV TNYFVVSILAA ADIAVGVLAI P PFAITISTGF CAACHGCLFI ACFLVLITQS SIFSLALAI DRYIAIRIPL RYNGLVTGTR AKGIIAICWV LSEFAIGLTPM LGWNNCGQPK EGKNSHQGG EGQVACLFED VPMNMYMYF NFFACVLVPL LMLGVYLRI FLAARRQLKQ MESQPLPGER ARSTLQKEVH AAKSLAIIVG LFALCWLPFH IINCFTFCP DCSHAPLWLM YLAIVLSHTN SVNPFYIAY RIREFRQTFR KIIRSHVLRQ QEPFKAAGTS ARVLAHGS D GEQVSLRLNG HPPGVWANGS APHPERRPNG YALGLVSGGS AQESQNGTGL PDVELLSHEL KGVCPEPPGL DDPLAQDGAG VS gggcaatttg ttagttatcc gccgccacca agacggcgga cggcgcttg accggagggg A ccccgcgcg ggcgaactt tgggtcggg cgagtgggtg gtgctccgcc cagcccgaga cgggcggcg cgcgggccaa tgggtgcgc ctcttgccg cggggggccc cgaccctgg gtcccgcca ccagcgcccc agccccgag ctcaagaagc gcaggcgag gcgcggtccg ggcgctatgg ccatgcccgg cgggtctcac ggggtcctc ctgccccgc gcgcttcgg tagggggcg cgggggcca gctggcccgg ccatgctgct ggagacacag gacgcgctgt acgtggcgct ggagctggtc atgcgcgcgc ttctgggtgg gggcaacgtg ctggtgtgcg ccggtgggg cagggcgaa cctctgcaga gcgccacaa ctacttctg gtgtccctgg ctcgggccga cgtggcggtg gggctcttcg ccatccctt tgccatcacc atcagcctgg gcttctgcac tgacttctac ggctgcctct tctcgctct ctctgtgctg gtgtcacgc agagctccat ctccagcctt ctggcgtgg cagtcgacag atacctggcc atctgtgtcc cgctcaggta taaaagtgtg gtcacgggga cccgagcaag aggggtcatt gctgtcctct gggtccttgc ctttggcctc ggattgactc cattcttggg gtggaacagt aaagacagtg ccaccaacaa ctgcacagaa cctggggatg gaaccacgaa tgaagctgc tgccttgtga agtgtctctt tgagaaatgt gtccccatga gctacatggt atatttcaat tctttgggt gtgttctgcc ccactgctt ataagtctg tgatctacat taagtcttc ctggtggcct gcaggcagct tcagcgcact gagctgatgg accactcgag gaccacctc cagcgggaga tccatgcagc caagtcactg gccatgattg tggggatttt tgccctgtgc tggttacctg tgcatgctgt taactgtgtc actcttttcc agccagctca gggtaaaaaat aagcccaagt gggcaatgaa tatggccatt ctctgtcac atgccaattc agttgtcaat cccattgtct atgcttaccc gaaccgagac ttccgctaca cttttcaca aattatctcc aggtatcttc tctgccaagc agatgtcaag agtgggaatg gtcagggtcg ggtacagcct gctctcggtg tgggcctatg atctaggctc tcgcctcttc caggagaaga tacaatatcca caagaacaa agaggacacg gctgggtttc attgtgaaag atagctacac ctcaacagg aatggactgc ctctcttgag cacttccctg gagctaccac gtatctagct aatatgtatg tgtcagtagt aggctccaa gattgacaaa tataattatg atctattcag ctgcttttac tgtgtggatt atgccaacag cttgaatgga ttctaacaga ctcttttgtt tttaaaagtc tgccttggtt atgggtgaaa attactgaaa ctattttact gtgaaacagt gtgaactatt ataatgcaaa tactttttaa cttagaggca atggaaaaat aaaagtgtgac tgtactaaaa atg	Homo sapiens
27	Adenosine A2b Receptor	NM_000676		

28	Adenosine A2b Receptor	NP_000667.1	274	MLETQDALY VALELYAAL SVAGNVLVCA AVGTANTIQT PTNYFLVSLA AADVAVGLEA P IPFAITISLG FCTDFVGCLEF LACFVLVLTQ SSIFSLAVA VDRYLAICVP LRYKSLVTGT RARGVIAVLW VLAFGIGLTP FLGWNKSDSA TNNCTEPWDG TTNESCCCLVK CLFENVVPMs YMYFNFFGC VLPPLLMILV IYIKIFLVAC ROLQRTEIMD HSRTTLQREI HAAKSLAMIV GIFALCWLPV HAVNCVTLEFQ PAQGNKPKW AMNMAILSH ANSVVNPIVY AYRNRDRFRT FKHILSRYLL CQADVKSNG QAGVQPALGV GL	Homo sapiens
29	Adenosine A3 Receptor	NM_000677	275	atctttgctg caaaggctgg gctatggctg tgctcagcaa agcgtcaact cgtgcaagaa A cttagcagga atagttctgg ctaaggttag gaggctgcca ccaaagtctc tttttgttc ctctgcttct cccgtttgccc tctttatcat gagatctttt tgctaagctg gcagaaagat tgcatagtca gtgcttccag ctctgctccc acctgacct gcactgtcct ctggtccctg aatgaatgaa ctctgatacc caatctgtgc tcgagccttc tctatgccac tcattggtccc tcttctgtc tttccatctt ttgtctgaga gtctgtagct ctgtacttcc tcttggtccc tctcacttcc tgaacaaccc ctgaagaggg ttgtcttatct tgatggaact caaaaagcca aaaagctgca ggcagagcgg ttgaggacat ctgtttgggg aactaagagc agcagcactt tcagattcag tccatataga gctgtctcac agcattctgg aaacttgagg atgtgcggtg cataaagggg ctggaagtga cccacctgtg atgagccctt tctaaggaga aggttttcca agagatcacc ccaccagaaa aggttaggaa tgagcaagtt gggaatttta gactgtcact gcacatggac ctctgggaag acgtctggcg agagctaggc ccactggccc tacagacgga tcttctggc tcacctgtcc ctgtggaggt tcccctggga aggcaagatg cccaacaaca gcactgtctt gtcattggcc aatgttacct acataccact ggaaattttt attggactct gcgccatagt gggcaacgtg ctggtcatct gcgtggctcaa gctgaacccc agcctgcaga ccaccacct ctatttcatt gtctctctag ccttggtctga cattgctgtt ggggtgctgg tcattgcttt ggccattgtt gtcagcctgg gcatacaat ccacttctac agctgccttt ttatgacttg cctactgctt atctttacc acgctccat catgtccttg ctggccatcg ctgtggaccg atacttgcg gtcaagctta ccgtcagata caagagggtc accactcaca gaagaatatg gctggccctg ggcctttgct ggctgggtgc attcctggtg ggattgacct ccatgtttgg ctggaacatg aaactgacct cagagtacca cagaaatgtc accttccctt catgccaat tggttccgtc atgagaatgg actacatggt atacttcagc ttccctcact ggattttcat cccctggtt gtcattgctg ccatctatct tgacatcttt tacatcattc ggaacaaact cagtctgaac ttatctaact ccaagagac aggtgcattt tatggacggg agttcaagac ggctaagtc ttgtttctgg ttcttttctt gtttgctctg tcattggtgc ctttatctat catcaactgc atcatctact ttaatgggtg ggtaccacag cttgtgctgt acatgggcat ctgctgtcc catgccaaact ccatgatgaa cctatcctc tatgcctata aaataaagaa gttcaagga accctacctt tgatctctaa agcctgtgtg gctgacctc cctctgattc tttagacaca agcattgaga agaattctga gtatttatcc atcagagatg actctgtctc attgaccttc agattcccca tcaacaaaca cttgagggcc tgtatgcctg ggccaaagga tttttacatc ctgtattact tccactgagg tgggagcatc tccagtgtct cccaattata tctccccac tccactactc tcttctccca cttcattttt cctttgtcct ttctctctaa ttcagtgttt tggaggcctg acttggggac aacgtattat tgatattatt gtctgttttc ctcttccca atagaagaat aagtcattga gcctgaaggg tgcctagtgtg acttactgac aaaaggctct agttgggctg aacatgtgtg tgggtggtgac tcatttccat	Homo sapiens

30	275	Adenosine A3 NP_000668.1 Receptor	gccattgtgg aattgagcag agaacctgct ctgaggagat gcctagaaga tgttgggaaac agaagaata aactgagttt aagggggact taaactgctg aattcacctg tggatgtttt tgagtaata aagctaata g MPNNSTALS ANVTYITMEI FIGLCAIVGN VLVICVVKLN PSLQTTTFYF IVSLALADIA P VGLVMPLAI VWSLGIITHF YSCLEFMTCLL LIFTHASINS LLAIADVRYL RVKLTVRYKR VTTHRIWLA LGLCWLVSFL VGLTPMFGWN MKLTSEYHRN YFELSQCQFVS VMKMDYMYF SFLTWIFPL VMCAIYLDI FYIIRNKLSL NLSNSKETGA FYGREFKTAK SLFLVLFLLFA LSWLPLSIIN CIIYFNGEVP QLVLYMGILL SHANSWMNPI VYAYKIKKFK ETYLLILKAC VCHPSDSL TSIEKNSE	Homo sapiens
31	309	Melanocortin NM_000529 2 Receptor (adrenocort1 cortropic hormone) (MC2R)	atgaagcaca ttatcaactc gtatgaaac atcaacaaca cagcaagaaa taattccgac A tgtctctgtg tggttttgcc ggaggagata tttttcaca tttccattgt tggagttttg gagaatctga tcgtcctgct ggctgtgttc aagaataaga atctccaggc acccatgtac tttttcattt gtagcttgcc catatctgat atgtctggga gcctataaa gatcttgga aatatctga tcataitgag aaacatgggc tatctcaagc cagtggcag ttttgaacc acagccgatg acatcatcga ctccctgttt gtcctctccc tgcttgctc catcttcagc ctgtctgtga ttgctgcgga ccgctacatc accatcttcc acgcaactgc gtaccacagc atcgtgacca tgcgcgcgac tgtggtgtgtg cttacggtea tctggacgtt ctgcacggg actggcatca ccatgtgtgat cttctcccat catgtgccc cagtgateac cttcacgtcg ctgttccgcg tgatgctggt cttcatctcg tgcctctatg tgacatggt cctgctggct cgatccaca ccaggaagat cttcacctc ccagagcca acatgaagg ggcacacaca ctgaccatcc tgcctggggt cttcatcttc tgcctggccc ctttctgtct tcatgtcctc ttgatgacat tctgcccgaag taacccctac tgcgctgct acatgtctct cttccaggtg aacggcatgt tgatcatgtg caatgccgtc attgaccctc tcatatagc cttccggagc ccagagctca gggacgcatt caaaaagatg atcttctgca gcaggtactg gtag FFICSLAISD MLGSLYKILE INNTARNSD CPRVLPPEI FFTISIVGL ENLIVLLAVF KNKNLQAPMY P LSVIAADRYI TIFHALRYHS IVTMRRTVVV LTVIWTFCTG TGITMVFISH HVPTVITFTS LFPLMLVFIL CLYVHMFLLA RSHTRKISTL PRANMKGAT LTILLGVFIF CWAPFVLHVL LMTFCPSNPY CACYMSLFQV NGMLIMCNAV IDPFIYAFRS PELRDAFKKM IFCSRYW	Homo sapiens
32	309	Melanocortin NP_000520.1 2 Receptor (adrenocort1 cortropic hormone) (MC2R)	tcctgcccgc cgctcgttct gtgcccccg gcccggccacc gacggccgcg cgttgagatg A actttccgcg atctcctgag cgtcagtttc gagggacccc gcccggacag cagcgacagg ggctccagcg cgggcccgcg cgggggcagc gcgggcggcg cggccccctc ggaggccccg gcggtggcg gcgtgccggg ggcgcgggcg gcgtgggtgg cgcagggcagc ggcgaggaca accggagctc cgcgggggag cgcggggcgg cgcggcagctg aatggcaagg cggccgtcgg gggactggtg gtgagcgcgc agggcgtggg cgtgggcgtc ttcctggcag ccttcactct tatggccgtg gcaggtaaac tgcctgtcat cctctcagtg gcctgcaacc gccacctgca gaccgtcac aactatttca tctgtaacct ggcgtggcc gacctgctgc tgagcgccac cgtactgccc ttctcgcca ccatggaggt tctgggcttc tgggcccctt gccgcgcctt ctgcgacgta tggggccgcg tggacgtgct gtgctgcacg gcctccatcc tcagcctctg caccatctcc acgtggcggt acgtggcggt gcgccactca	Homo sapiens
33	376	Alpha 1d- adrenoceptor		Homo sapiens

Accession	Gene	Protein	Species
334	Alpha 1d-adrenoceptor	NP_000669.1	Homo sapiens
376	Alpha 1b-adrenoceptor	NM_000679	Homo sapiens

36	Alpha 1b- adrenoceptor	NP_000670.1	<p>atcctagtca tcttgtctgt ggccctgcaac cggcacctgc ggagccccc caactacttc attgtcaacc tggccatggc cgacctgtg ttgagcttca ccgtcctgcc cttctcagcg gccctagagg tgcctggcta ctgggtgctg gggcgatct tctgtacat ctgggcagcc gtggatgtcc tgtgctgac agcgtccatt ctgagcctgt cgcccatctc catcgatcgc tacatcgagg tgcgtactc tctgcagtat ccacgcttg ccaccggag gaaggccatc ttggcgctgc tcagtgtctg ggtcttgtcc agctcatct ccacgggcc tctccttggg tggaaggagc cggcacccaa cgatgacaag agtgcgggg tcaccgaaga acccttctat gccctcttct cctctctggg ctcctcttac atccctctgg cggtcattct agtcatgtac tgccgtgtct atatagtggc caagaagaac accaagaac tagaggcagg agtcatgaag gagatgtcca actccaaggc gctgacctg aggtaccatt ccaagaactt tcacgaggac acccttagca gtaccaaggc caaggccac aacccaggga gttccatagc tgtcaaaactt tttaagtctt ccagggaata gaaagcagct aagacgttg gattgtgtt cggtagtttc atcttgtgtt ggtacctt cttcatcgt ctaccgctg gctcctgtt ctcacacctg aagcccccg acgcgtgtt caaggtgtg tctgtgctg gctacttcaa cagctgcctc aaccccatca tctaccatg ctccagcaag gatttcaag cgctttcgt gcgcatcctc gggtgccagt gccggggcg cggccggcg cgacggcg gccgctgc cctggggcg tgcgctaca cctaccggc gtggacggc gtggcgctgc tggagcgtc gcagtgcgc aaggactgc tggacgacag cggcagctgc ctgagcggca gccagcgac cctgccccg gcctgcgga gccgggcta cctggggcg cggcgccac gccagtcga gctgtgcgc ttccccgagt ggaaggcgc cggcgccct ctgagcctgc cggcgctga gcccccg cgccggcg gccacgact gggccgctc ttacacctc agctcctgac cgagcccgag agccccgga cggacggcg cggcagcaac ggagctgc agcccgcg cgacgtggc aacgggcagc cgggcttcaa aagcaacatg cccctggcg cggcgagtt tagggccc cgtgcgagc tttcttccc tggggaggaa aacatcgtg ggggga MNPDLDTGHN TSAPAHWGEL KNAVETGPNQ TSSNSTLPQL DITRAISVGL VLGAFLFAI P VGNILVILSV ACNRLRPT NYFIVNLAMA DLLLSFTVLP FSAALEVLGY WVIGRIFCDI WAADVLCCT ASILSLCAIS IDRYIGVRS LYPTLVTRR KAILALLSV VLSTVISIGP LIGWKEPAPN DDKECGVTEE PFYALFSSLG SFYIPLAVIL VMYCRVYIVA KRTKNLEAG VMKEMSNSKE LTLRIHSKNF HEDTLLSSTKA KGNPRSSIA VKLFKFSREK KAAKTLGIVV GMFILCWLPF FIALPLGSLF STLKPPDAVF KVVFWLGYFN SCLNPIIYPC SSKEFKRAFY RILGCQCRGR GRRRRRRRRR LGGCAYTYRP WTRGGSLEERS QSRKDSLDDS GSCLSGSQRT LPSASPSGY LGRGAPPPVE LCAFPEWKAP GALLSLPAPE PPGRRRRHDS GPLFTFKLLT EPESPGTDGG ASNGGCEAAA DVANGQPGFK SNMPLAPGQF gaattccgaa tcattgtcag aatgctgaat cttccccag ccaggacgaa taagacagcg A cggaagaagca gattctcgta attctggaat tgcattgtgc aaggagtctc ctggatcttc gcacccagct tcgggtaggg agggagtccg ggtcccgggc taggccagcc cggcaggtgg agagggtccc cggcagccc gcgcgccc ctgcatgtct ttaatgccc gcccttcat gtggccttct gaggttccc agggctggcc aggttgttt cccaccccg cgcgctct cacccccc ccaacccacc tggcagggt cctccagcc gagacctttt gattccccg tcccgcgtc ccgcctccg gccagcccg gaggtggcc tggacagcc gacctcgcc ggccccgct ggaccatgg tgttctctc gggaatgct tccgacagct ccaactgcac</p>	Homo sapiens
37	Alpha 1c- adrenoceptor	NM_000680	<p>gaattccgaa tcattgtcag aatgctgaat cttccccag ccaggacgaa taagacagcg A cggaagaagca gattctcgta attctggaat tgcattgtgc aaggagtctc ctggatcttc gcacccagct tcgggtaggg agggagtccg ggtcccgggc taggccagcc cggcaggtgg agagggtccc cggcagccc gcgcgccc ctgcatgtct ttaatgccc gcccttcat gtggccttct gaggttccc agggctggcc aggttgttt cccaccccg cgcgctct cacccccc ccaacccacc tggcagggt cctccagcc gagacctttt gattccccg tcccgcgtc ccgcctccg gccagcccg gaggtggcc tggacagcc gacctcgcc ggccccgct ggaccatgg tgttctctc gggaatgct tccgacagct ccaactgcac</p>	Homo sapiens

38	Alpha 1c- adrenoceptor	NP_000671.1	<p> cgaacgcgcg gcacgggtga acatttccaa ggccattctg ctccgggggtga tcttggggggg cctcattctt ttccgggtgc tgggtaacat cctagtgatc ctctccgtag cctgtcacccg acacctgcac tgaatcacgc actactacat cgtcaaacctg gcggtggccg acctcctgct cacctccacg gtgctgcctt tctccgccat cttccaggtc ctaggctact gggccttcggg cagggtcttc tgcaacatct gggcgggcagt ggatgtgctg tgctgcacgc cgtccatcat ggcctctgac atcatctcca tgcacccgta cgtcccggtg agtaccgccg tgcctaccc aacctcgtc acccagagga ggggtctcat ggctctgctc tgcgtctggg cactctccct ggtcatatcc attggaaccc tgttcggctg gaggcagcgc gcccgcgagc acgagaccat ctgccagatc aacgagagc cgggctaagt gctcttctca gcgctgggct ccttctacct gcctctggcc atcatctctg tcatgtactg ccgctctac gtggtggcca agaggagagag ccggggcctc aagtctggcc tcaagaccga caagtccgac tcggagcgaag tgacgctccg catccatcgg aaaaacgccc cggcaggagg cagcgggatg gccagcgcca agaccaagac gcactctca gtgaggtccc tcaagtctc ccgggagag aaagcgcca aaacgtggg catcgtgggc ggtgcttctg tctctgctg gctgcttctt ttcttagtca tgccctagg gtcttctctc cctgatttca agccctctga aacagttttt aaaaagtat ttggctcgg atatctaaac agctgcatca accccatcat ataccatgc tccagccaag agttcaaaaa ggcctttcag aatgtcttga gaatccagt tctccgcaga agcagctctt ccaaacatgc cctgggtac accctgacc cggccagcca ggcgtggaa gggcaacaca agacatgggt gcgcatcccc gtgggatcaa gagagacctt ctacaggatc tccaagacgg atggcgtttg tgaatggaaa ttttctctt ccattgcccg tggatctgcc aggattacag tgtccaaaga ccaatcctcc tgtaccacag ccggtgtgag aagtaaaagc tttttggagg tctgctgctg tgtagggccc tcaaccccca gccttgacca gaacatcaa ttaacca ttaaggtcca caccatctcc ctcatgtaga acggggagga agtctagac agaaagatg cagaggaaaag gggaataatc ttaggtatcc accccactc ctctcggaa gcccagctct tcttggagga caagacagga ccaatcaaa aggggacctg ctgggaatgg ggtgggtggt agaccaact catcaggcag cgggtagggc acagggaaga gggagggtgt ctcaacaacca accagttcag aatgatacgg aacagcattt ccctgcagct aatgctttct tggtcactct gtgccactt caacgaaaaa caccatggga aacagaattt catgcacaat ccaaaagact ataaatatag gattatgatt tcatcatgaa tattttgagc acacactcta agtttgagc tatttcttga tggaagttag gggattttat tttcaggctc aacctactga cagccacatt tgacatttat gccgggaattc </p>	Homo sapiens
379	Alpha 2a- adrenoceptor	NM_000681	<p> SSNCTQPAP VNISKAILLG VILGGLILFG VLGNILVILS VACHRHLSV P THYIYVNLAV ADLLTSTVL PFSAIFEVLG YWAFGRVFCN IWAADVVLCC TASIMGLCII SIDRYIGVSY PLRYPTIVTQ RRLMALLCV WALSLVISIG PLFGWRQPAP EDETCIQINE EPGYVLFSAI GFYLPPLAI I LVMYCRVYV AKRESRLGKS GLKTDKSDSE QVTLRIHRKN APAGSGMAS AKTKTHFSVR LLKFSREKKA AKTLGIVVGC FVLCWLPFFL VMPIGSFFPD FKPSETVFKI VFWLGYLNSC INPIIYPCSS QEFKAFQNV LRIQCLRRKQ SSKHALGYTL HPPSQAVEGQ HKDMVRIPVG SRETFYRISK TDGVCEWKFF SSMPRGSAI TVSKDQSSCT TARVRSKSL EVCCCVGPST PSLDKNHQVP TIKVHTISLS ENGEEV gcgctcgccg ccacacaggc ggacgcccag gagaacccct gcctccgctg cggctcctgg A agagctgac gtccacctgc cccggcccgc ctgaggagcgg ggggtgccttc atgggcccc </p>	Homo sapiens

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Homo

P

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NP_000673.1

Alpha 2b-

388

42

adrenoceptor		sapiens
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		ctcatcatgg gcctggtcta cgcgcgcac cgtgggcccc ccccgactac cgaatacggg
		ctcagcgaga agcgcccc cgtgggcccc ggcactgcg cccccgcgc gccgacgtgg
		ctggcgcgcg cggcagcgga ggcgagaaag ggagcgcg cggggcggtt gcgcgggcg
		agccggacga gagcagcga gcggccgaga ggcggcgcg cggggcggtg ggggcgggg
		ggcgcgcgcg gagcgcgcg ggagggggcg cggcgcggtg cggagcgga ggggcgggg
		ccggggcgcg ctcatcggg ggcgctgac gcctccagt cccccgggc cgggtggcgc
		ctctcgcgcg ccagctcgc ctccgtcgag tcttctctg cgcgcggcg ccggcgcgcg
		agcagcgtgt gccgcgcga ggtggcccc gcgcgcgaga agcgttccac ctttgtgtg

43 389 Alpha 2c- NM_000683 adrenoceptor

44	Alpha 2c- adrenoceptor	NP_000674.1	389	<p> MASPALAAAL AVAAAAGPNA SGAGERGSGG VANASGASWG PPRGOYSAGA VAGLAUVVGF P LIVTVVGNV LVIAVLTSR ALRAPQNLFL VSLASADILV ATLMFPFSLA NELMAYWYFG QVWCGVYLAL DVLFTSSIV HLCALSLDRY WSVTQAVEYN LKRTPRRVKA TIVAVWLISA VISFPPLVSL YRQPDGAAYP QCGLNDETMY ILSSCIGSEF APCLIMGLVY ARIYRVAKRR TRTLSEKRAP VGPDGASPTT ENGLGAAAGE ARTGTARPP PWRSRTRAAQ RPRGGAPGPL RRGRRRAGA EGGAGGADGQ GAGPGAQSG ALTASRSPG GWLSRASSR SVEFFLSRRR RARSSVCRK VAQAREKRFT FVLAVVMGVF VLCWFPEFFI YSLYGICREA CQVPGPLFKF FFWIGYCNSS LNPVIYTVFN QDFRPSFKHI LFRRRRRGRF Q ctgtgcatgg catcatctg gccctctta gagctccaat cctccaacca gagccagctc A ttccctcaaa atgtacaggc ctgtgacaaat gctccagaag cctgggacct gctgcacaga gtgctgccga cattedatcat ctccatctgt ttcttcggcc tcttagggaa cctttttgtc ctgttggtct tcctcctgcc ccggcgggcaa ctgaacgtgg cagaaatcta cctggccaac ctggcagcct ctgatactgggt gtttgtcttg gcttgccct tctgggcaga gaatatctgg aaccagtta actggccttt cggagccctc ctctgcccgt tcatcaacgg ggtcatcaag gccaatgtgt tcatcagcat ctctcctggt gtggccatca gccaggaccg ctaccgcgtg ctggtgcacc ctatggccag cggaaggcag cagcggcggg ggcaggccc ggtcacctgc gtgctcatct gggttgtggg gggcctcttg agcatcccca cattcctgct gcgattccatc caagccgtcc cagatctgaa catcacccgc tgcattcctg tctccccc tgaggcctgg cactttgcaa ggattgtgga gttaaatatt ctgggtttcc tctaccact ggctgcgac gtcttctca actaccacat cctggcctec ctgcgaacgc gggaggagggt cagcaggaca agagtgcggg gcccgaagga tagcaagacc acagcgtcta tcctcacgt cgtggttgcc ttctgtgtct gctgggcccc ttaccacttc ttgcaattct attccagggtg caagcagtc gagctgctt ttggaggac ttcatgacc ttggcctgca atggcccaac ttctttgct tcaataacag ctccctgaat ccagtaattt atgtctttgt gggccggctc ttcaggacca aggtctggga actttataaa caatgcaccc ctaaaagtct tgctccaata tcttcatccc ataggaaaaga aatcttccaa cttttctggc ggaattaaaa cagcattgaa cc </p>	Homo sapiens
45	Bradykinin B1 Receptor	NM_000710	599	<p> ctgtgcatgg catcatctg gccctctta gagctccaat cctccaacca gagccagctc A ttccctcaaa atgtacaggc ctgtgacaaat gctccagaag cctgggacct gctgcacaga gtgctgccga cattedatcat ctccatctgt ttcttcggcc tcttagggaa cctttttgtc ctgttggtct tcctcctgcc ccggcgggcaa ctgaacgtgg cagaaatcta cctggccaac ctggcagcct ctgatactgggt gtttgtcttg gcttgccct tctgggcaga gaatatctgg aaccagtta actggccttt cggagccctc ctctgcccgt tcatcaacgg ggtcatcaag gccaatgtgt tcatcagcat ctctcctggt gtggccatca gccaggaccg ctaccgcgtg ctggtgcacc ctatggccag cggaaggcag cagcggcggg ggcaggccc ggtcacctgc gtgctcatct gggttgtggg gggcctcttg agcatcccca cattcctgct gcgattccatc caagccgtcc cagatctgaa catcacccgc tgcattcctg tctccccc tgaggcctgg cactttgcaa ggattgtgga gttaaatatt ctgggtttcc tctaccact ggctgcgac gtcttctca actaccacat cctggcctec ctgcgaacgc gggaggagggt cagcaggaca agagtgcggg gcccgaagga tagcaagacc acagcgtcta tcctcacgt cgtggttgcc ttctgtgtct gctgggcccc ttaccacttc ttgcaattct attccagggtg caagcagtc gagctgctt ttggaggac ttcatgacc ttggcctgca atggcccaac ttctttgct tcaataacag ctccctgaat ccagtaattt atgtctttgt gggccggctc ttcaggacca aggtctggga actttataaa caatgcaccc ctaaaagtct tgctccaata tcttcatccc ataggaaaaga aatcttccaa cttttctggc ggaattaaaa cagcattgaa cc </p>	Homo sapiens

46	599	Bradykinin B1 Receptor	NP_000701.1	MASSWPPLEL QSSNQSQLEP QNATACDNAP EAWDLLHRVL PTFIISICFF GLLGNLFVLL P	Homo sapiens
				VFLPRRLN VAEIYLANIA ASDLVFVLGL PFWAENIWNQ FNPFGALLC RVINGVIKAN	
				LFISIFLVA ISQDRYRVLV HPMASGRQQR RQARVTCVL IWWVGGLLSI PTFLLRSIQ	
				VPDLNITACI LLLPHEAWHF ARIVELNIG FLLPLAIVE FNYHILASLR TREEVSRVRV	
				RGPKDSKTTA LILLVVAFL VCMAPYHFFA FLEFLFQQA VRGCFWEDFI DLGLQLANFF	
47	600	Bradykinin B2 Receptor	NM_000623	AFTNSLNPV IYFVGRLEF TKWELYKQC TPKSLAPIS SHRKEIFQLF WRN	Homo sapiens
				atgttctctc tctgaagat atcaatgttt ctgtctgttc gtgaggactc cgtgcccacc A	
				acggcctctt ccagcgcga catgtccaat gtcacctgc aagggccac tcttaacggg	
				accttgccc agagcaaatg ccccaagtg gagtggctgg gctggctcaa caccatccag	
				cccccttcc tctgggtgct gttcgtgtg gccacctag agaaccattt tgtcctcagc	
				gtcttctgcc tgcacaagag cagctgcacg gtggcagaga tctacctggg gaacctggcc	
				gcagcagacc tgatcctggc ctgcgggctg cctctctgg ccatcaccat ctccaacaac	
				ttcgactggc tctttgggga gacgtctgc cgcgtgtga atgccattat ctccatgaac	
				ctgtacagca gcatctgttt cctgatctg gtgagctcg accgtacct ggccctggtg	
				aaaacatgt ccatgggccc gatgcggcg gtgcgtctg ccaagctcta cagcttggtg	
				atctgggggt gtacgtgct cctgagctca cccatgctgg tgttcggac catgaaggag	
				tacagcgatg agggccaca cgtcaccgt tgtgtcatca gctaccate cctcatctgg	
				gaagtgtca ccaacatgct cctgaatgtc gtgggcttcc tgcgtcccc gagtgcac	
				accttctgca cgtgcagat catgcaggtg ctgcggaaca acgagatgca gaagtccaag	
				gagatccaga cggagaggag ggccacggtg ctagtctgg ttgtgctgt gctattcatc	
				atctgctggc tgccttcca gatcagcacc ttctctggata cgtgcacg cctcggcact	
				ctctcagct gccaggacga gcgcatcatc gatgtaatca cacagatgc ctcttcatg	
				gcctacagca acagctgct caaccactg gtgtacgtga tctgtggcaa gcgttccga	
				aagaagtctt gggaggtgta ccaggagtg tgcagaaag ggggctgcag gtcagaacc	
				attcagatgg agaactccat gggcacactg cggacctcca tctcctgga acgccagatt	
				cacaaactgc aggactggc agggagcaga cagtgcagaa acgccagcag ggctgctgtg	
				aatttgtgta aggattgagg gacagttgct tttagcagta gcccaggaa tgcaggag	
				acatctatgc acgacctgg gaaatgagtt gatgtctcg gtaaaacacc ggagactaat	
				tcctgcccctg cccaaatttg caggagcat ggctgtgagg atgggtgaa ctacgcaca	
				gccaaaggact ccaaaatcac acagcata ctgttcttat ttgtgccc acctgagcca	
				gcctgctcct tcccaggat ggaggaggc tggggggagg gagaggagt actgagcttc	
				cctcccgtgt gttctcgtc cctgcccag caagacaact tagatctcca ggagaactgc	
				catccagctt tggtgcaatg gctgagtga caagtgagt ttgtccctgg gtttctttaa	
				tctattcagc tagaactttg aaggacaatt tcttgcatata ataaagttta agccctgagg	
				ggtccctgat aacaacctgg agaccaggat ttatatggctc cctcactga tggacaagga	
				ggtctgtgcc aaagaagaat ccaataagca catattgagc acttgctgta tatgcagtat	
				tgagcactgt aggcaagacc caagaaagag aaggagccat ctccatctt aggaactca	
				aagactcaag tgggaacgac tgggcactgc caccaccaga aagctgttc acgagacggt	
				cgagcagggt gctgtgggtg atatggacag cagaaggggg agaccaaggt tccagctcaa	
				ccaataacta tgcacaacc acctgtccct gcctcagttc cctttatgt aacatgaagt	
				cgttgtgagg gttaaaggca gtaacaggta taaagtactt agaaaagcaa aggtgtctac	

48	600	Bradykinin B2 Receptor	NP_000614.1	<p> ggcacatgga ggcacatgga cgcagacgta actgggagat gttactata agaaaaagac actgaggtct agaaatagct ccgtggagca gaatacgtat tgggagccgg tggcggtgtg aagcaccagt gtctggcaca cagtaggtgc tcattggctc cctccacct gtcattccca ccacctgag gcccacaaccg ccacacacac agagacattt ggagagaagg ccatgtcttc aaagtctgat ttgtgatgag gcagaggaag atattttaa tcggtcttgc ccagaggatc tcagggactg ttccctgtctc agcaaccaag ggattgttcc tgtcaatcaa tggttttattg gaagtggtcc cagtatgagc cctagaagag tgtgaaaagg aatggcaatg gtgttcacca tcggcagtgc caggcagca ctcattcaat tgataaatga atatttata gctggttga gagctagaac ctggagagct agaacctgga gaactagaac ctggagggct agaacctgga gaggtctaga ccaagaaggg ctagaacctg gaggggctag aacctagaga agctaaaaacc tgagctagaa gctggaggac tagaacctgg agggctgaa tctgaaggc tagaacctgg agggctgga tctggagagc tagaacctgg agggctgaa cctggagggc tagaacctag aagggtctga acctgaggg ctggaatctg gagagctaga acctggaggg ctagaacctg gagggctaga acctagaagg gctagaacct ggagggctag aacctggcag gtagaacct agaaggcta gaacctggag agccagaacc tggagggcta gaacctgga gggctagaac ctgtagagct agaactgga gagctagaac ccggcaggct agaacctggc aagctagaac ctggaggga tgaacctgga gggctagaac ctggagaatg agaaaaattt acatggcaaa gagccataa atcttgacca atccaaactt gaattttaa gcaaaagct gaaaaaaaag attccctctt taccaccaac ccaactcttt tccccaccac ccaactctct ctgctcagt aagtatctgg aggaagaaa caggtgaaag aagaatgaa aaccttttag tattagtatt agaataagt caaactgtgc cacacatggt gaataaaaa aaaaaaaag aggtgtgtt ttgtcacaca gggcagtcac tcagcacag agcacgtgat ggtctgagac tctcttagga gcagagctct gccgcaatgg ccatgtgggg atccacacct ggtctgaggg gcaactgagt ctgcgggaga agagcggccc tatgcatggt tagatgccc tgataaagaa catctgtcct gtgaaagact caatgagctg ttatgttga aacagggaag attcacatc caaacgagaa aatcatgtaa acatgtgtct tttctgtaga gcataataaa tggatgaggt ttttgcaaaa aaaaaaaaaaaa </p>	Homo sapiens
49	635	Beta-1 adrenoceptor	NM_000684	<p> MFSPWKISMF LSVREDSVPT TASFSADMLN VTLOQTLLG TFAQSKCPQV EWLGLNLTIQ P PPFLMWLVFL ATLENIFVLS VFCLHKSSCT VAEIYLGNI AADLIACGL PFWAITISNN FDWLFGETLC RVNNAIISMN LYSSICFLML VSIDRYLALV KTSMGMRG VRWAKLYSLV IWGCTLLLS PMLVFRMKE YSDEGHNVT A CVISYPSLIW EVFTNMLNV VGFLPLSLVI TFCTMQIMQV LRNNEMQKFK EIQTERRATV LVLVLLLF I CWLPFQIST FLDTLHLRGI LSSCQDERII DVITQIASFM AYSNSCLNPL VYVIVGKRFR KKSWEVYQGV CQKGGCRSEP IQMENSNGTL RTSISVERQI HKLQDWAGSR Q tgctaccgc gccgggctt ctggggtgtt ccccaaccac ggcccagccc tgccacacc A cccgccccg gcctccgag ctcggtcgtg gcgcggggt gctcgtcctg ggcgctccg agcccggtaa cctgtcgtg gccgcaccg tccccagcg gcgcccacc gcggcgcggc tgctgtgtcc cgcgtcgcc cccgctcgt tgctgcctcc gcgcagcga agccccgagc cgctgtctca gcagtgga cgggcatgg gctcgtgat ggcgtcatc gtgctgtca tcgtggcggg caatgtgctg gtgatcgtg ccatcgcaa gacgcccgg ctgcagacgc </p>	Homo sapiens

50	Beta-1 adrenoceptor	NP_000675.1	635	<p> taccacacct cttcatcatg tccctggcca ggcgcgacct ggtcatgggg ctgctggtgg tgccgttcgg ggcaccatc gtggtgtggg gccgtggga gtacgctcc tctctctcg agctgtggac ctacgtggac gtgctgtgcy tgacggccag catcgagacc ctgtgtgtca ttgccctgga ccgtacctc gccatcacct cgcctctccg ctaccagacc ctgctgacgc ggcgcgggc gggggccctc gtgtgcaccg tgtgggacct ctgggacctg gtgtccctcc tgccatcct catgcaactg tggcgggcgg agagcgacga ggcgcgcgc tgctacaacg accccaagt ctgcgacttc gtcaccaacc gggctacgc catcgctcg tccgtagtct ccttctactg gccctgtgc atcatggcct tegtgtacct cgggtgttc cgcgaggccc agaagcaggt gaagaagtc gacagctcg agcgcttt cctcgggcc cagcgcgcc cgccctgcc ctgcctcg cccgtcccg cgcgcgcgc gccgcgcga ccccgcgcc cgcgcgcgc cgcgcgcac gcccgctgg ccaacggcg tgcgggtaag cggcgccct cgcgcctgt ggcctacgc gacgagaag cgtcaagac gctgggcatc atcatggcg tctcaact ctgctggctg ccttcttcc tggccaact ggtgaaggcc tccaacgcg agctggtgcc cgacgcctc tctgttctt tcaactggtt gggctacgcc aactcgctt tcaaccccat catctactgc cgcagcccc atctccgaa ggccttccag gactgctct gctgcgcgc cagggtgcc cgcgcgcgc cgcgaccca cggagacgg cgcgcgcct cgggtgtct ggcgcgcgc ggcgcgcgc catgcgcgc ggcgcctcg gacgacgcg acgacgatgt cgtcgggcc cgcgcgcgc cgcgcctgt ggagccctgg gccgctgca acggcgggc ggcgcgcgc agcgactga cctgggaga cctgtgcgc cccgcttcg cctcggaat caagtgtgt ggcgcgcgc gggcggcga ctcgcgcgc gcttccacg gggaacgag agatgtgt ttaactaaga ccatagcag gtgaactga agccacat cctcgtctga atcatcgag gcaagagaa aagccacga cgttgccaa aaaaggaaa tttgggaag gatggagag tggctgtgt atgttcttg ttg MGLMALIVL LIVAGNVLI VAIKTPRLQ TLTNLFMSL ASADLMGLL VPFGATIVV WGRWEYGSFF CELWTSVDVL CVTASIEIC VIALDRYLAI TSPFRYQSL TRARAGLVC TVWAI SALVS FLFILMHW R AESDEARRCY NDPKCCDFVT NRAYAIASV VSFYVPLCIM AFVYLRVRE AQKVKKIDS CERRELGP RPPSPSPSPV PAPAPPPGP RPAATAATP LANGRAGRR PSRLVALREQ KALKTLGIM GVFTLCWLPF FLANVVKAFH RELVPDRLEFV FFNLGYANS AFNPIYCRS PDFRKAFOGL LCCARRARR RHATHGDRPR ASGCLARPGP PPSPGAASDD DDDVVGATP PARLLEPWAG CNGGAADSD SSLDEPCRP FASESKV actgggaagc ggccttctca gagcacggc tggaaactggc aggcacggc agcccttagc A accgacaaag ctgagtgtgc aggcagagtc cccaccacac ccacaccaca gccgctgaat gaggttcca ggcgtccgct cgcgcgcgc agagcccgcc cgtgggtccg cccgctgag cgccccagc cagtgcgctt acctgcaga ctgcgcgcca tggggcaacc cgggaacggc agcgcttct tgcgtgcaac caatagaagc catgcgcgc catcctcatgt cctcctcatc agggacgag tgtgggtgtt gggcatggc atcgtcatgt cctcctcatgt cctggccatc gtgtttggga atgtgtgtt catcacagc attgccaagt tcgagcgtct gcagacggtc accaactact tcaacttc actggcctgt gctgatctgg tcatgggctt ggcagtgggtg ccctttgggg ccgccatat tcttatgaa atgtggactt ttggcaact ctggtgcgag ttttgactt ccattgatgt gctgtgcgtc acggccagca ttgagacct gtgctgatac </p>	Homo sapiens
51	Beta-2 adrenoceptor	NM_000024	640	<p> taccacacct cttcatcatg tccctggcca ggcgcgacct ggtcatgggg ctgctggtgg tgccgttcgg ggcaccatc gtggtgtggg gccgtggga gtacgctcc tctctctcg agctgtggac ctacgtggac gtgctgtgcy tgacggccag catcgagacc ctgtgtgtca ttgccctgga ccgtacctc gccatcacct cgcctctccg ctaccagacc ctgctgacgc ggcgcgggc gggggccctc gtgtgcaccg tgtgggacct ctgggacctg gtgtccctcc tgccatcct catgcaactg tggcgggcgg agagcgacga ggcgcgcgc tgctacaacg accccaagt ctgcgacttc gtcaccaacc gggctacgc catcgctcg tccgtagtct ccttctactg gccctgtgc atcatggcct tegtgtacct cgggtgttc cgcgaggccc agaagcaggt gaagaagtc gacagctcg agcgcttt cctcgggcc cagcgcgcc cgccctgcc ctgcctcg cccgtcccg cgcgcgcgc gccgcgcga ccccgcgcc cgcgcgcgc cgcgcgcac gcccgctgg ccaacggcg tgcgggtaag cggcgccct cgcgcctgt ggcctacgc gacgagaag cgtcaagac gctgggcatc atcatggcg tctcaact ctgctggctg ccttcttcc tggccaact ggtgaaggcc tccaacgcg agctggtgcc cgacgcctc tctgttctt tcaactggtt gggctacgcc aactcgctt tcaaccccat catctactgc cgcagcccc atctccgaa ggccttccag gactgctct gctgcgcgc cagggtgcc cgcgcgcgc cgcgaccca cggagacgg cgcgcgcct cgggtgtct ggcgcgcgc ggcgcgcgc catgcgcgc ggcgcctcg gacgacgcg acgacgatgt cgtcgggcc cgcgcgcgc cgcgcctgt ggagccctgg gccgctgca acggcgggc ggcgcgcgc agcgactga cctgggaga cctgtgcgc cccgcttcg cctcggaat caagtgtgt ggcgcgcgc gggcggcga ctcgcgcgc gcttccacg gggaacgag agatgtgt ttaactaaga ccatagcag gtgaactga agccacat cctcgtctga atcatcgag gcaagagaa aagccacga cgttgccaa aaaaggaaa tttgggaag gatggagag tggctgtgt atgttcttg ttg MGLMALIVL LIVAGNVLI VAIKTPRLQ TLTNLFMSL ASADLMGLL VPFGATIVV WGRWEYGSFF CELWTSVDVL CVTASIEIC VIALDRYLAI TSPFRYQSL TRARAGLVC TVWAI SALVS FLFILMHW R AESDEARRCY NDPKCCDFVT NRAYAIASV VSFYVPLCIM AFVYLRVRE AQKVKKIDS CERRELGP RPPSPSPSPV PAPAPPPGP RPAATAATP LANGRAGRR PSRLVALREQ KALKTLGIM GVFTLCWLPF FLANVVKAFH RELVPDRLEFV FFNLGYANS AFNPIYCRS PDFRKAFOGL LCCARRARR RHATHGDRPR ASGCLARPGP PPSPGAASDD DDDVVGATP PARLLEPWAG CNGGAADSD SSLDEPCRP FASESKV actgggaagc ggccttctca gagcacggc tggaaactggc aggcacggc agcccttagc A accgacaaag ctgagtgtgc aggcagagtc cccaccacac ccacaccaca gccgctgaat gaggttcca ggcgtccgct cgcgcgcgc agagcccgcc cgtgggtccg cccgctgag cgccccagc cagtgcgctt acctgcaga ctgcgcgcca tggggcaacc cgggaacggc agcgcttct tgcgtgcaac caatagaagc catgcgcgc catcctcatgt cctcctcatc agggacgag tgtgggtgtt gggcatggc atcgtcatgt cctcctcatgt cctggccatc gtgtttggga atgtgtgtt catcacagc attgccaagt tcgagcgtct gcagacggtc accaactact tcaacttc actggcctgt gctgatctgg tcatgggctt ggcagtgggtg ccctttgggg ccgccatat tcttatgaa atgtggactt ttggcaact ctggtgcgag ttttgactt ccattgatgt gctgtgcgtc acggccagca ttgagacct gtgctgatac </p>	Homo sapiens

52	640	Beta-2 adrenoceptor	NP_000015.1	<p>gcagtggtatc gctactttgc cattacttca cttttcaagt accagagcct gctgaccaag aataaggccc gggtgatcat tctgatggtg tggatttgtt caggccttac ctccttcttg cccatcaga tgcactggta ccggccacc caccagaaag ccatcaactg ctatgccaat gagacctgct gtgacttctt cacgaaccaa gcctatgcca ttgcctcttc catcgtgtcc ttctactgtc cctggtgat catggtcttc gctactcca gggtctttca ggaggccaaa agcagctcc agaagattga caaatgtgag ggcgcttcc atgtccagaa ccttagccag gtggagcagg atggcggagc gggcagtgga ctccagatg ctccaagtt ctgcttgaag gagcacaaa cctcaagac gttaggcatc atcatggga ctttaccct ctgctggctg cccttcttca tctttaacat tgtgcatgtg atccaggata acctcatcg taaggaaagt tacatcctcc taaattggat aggtatgtc aattctgtt tcaatccct tatctactgc cggagcccg atttcaggat tgccttccag gagcttctgt gcctgcgag gtcttctttg aaggcctatg ggaatggcta ctccagcaac ggcaacacag gggagcagag tggatatcac gtggaacagg agaaagaaaa taaactgtg tgtgaagacc tcccaggcac ggaagacttt gtggccatc aagttactgt gcttagcgtt acatttgatt ccaagaggag gaattgtagt acaaatgact cactgctgta aagcagtttt tctactttta aagaccccc ccccccaac agaacactaa acagactatt taacttgagg gtaataaact tagaataaaa ttgtaaaaa tgtatagaga tatgcagaag gaaggcctc ctctgcctt ttttatttt ttaagctgta aaaagagaga aaacttattt gagtattat ttgttatttg tacagttcag ttcctctttg catggaattt gtaagtttat gtctaaagag ctttagtctt agaggacctg agtctgctat atttcatga ctttccatg tatctacctc actatacaag tattagggtt aatatattgc tgctgtaaat ttgtatctga agagattttt ccttcttaca ccttggact tgaggatttt gagtatctcg gacctttcag ctgtgaacat ggactcttc ccactcttc ttatttgctc acacggggtg ttttaggcag ggatttgagg agcagcttca gttgttttc cgagcaagg tctaaagttt acagtaataa aaatgtttga ccatg</p>	Homo sapiens
53	643	Beta-3 adrenoceptor	NM_000025	<p>FERLQTVTNY FITSLACADL VMGLAVVPFG AAHILMKMT SGLTSLPIQ MHWRATHQE IETLCVIAVD RYFAITSEFK YQSLTKNKA RVIIIMWVIV RVFQAKRQL QKIDKSEGRF AINCYANETC CDFFTNQAYA IASSIVFYV PLVIMFVYS TFTLCWLPFF IWNIVHVIQD HVQNLSQVEQ DGRTHGLRR SSKFCLKEHK ALKTLGIIMG CLRRSSLKAY GNGYSSNGNT NLIRKEYIIL LNWIGYVNSG FNPLIYCRSP DFRIAFQELL SQGRNCSTND SLL GEQSGYHVEQ EKENKLICED LPTGTEFVGH QGTVPDNDID SGTGAGCGC A gctactctc ccccaagac ggtggcacc aggagttgg ggtggggga ggtgagcgc A tctggctggg acagctagag aagatggccc aggtgggga agtcgcttc atgcctgtct gtccctccc ctgagccagg tgatttgga gacccctcc ttcctcttt ccttaccgcc ccacgcgga cccgggatg gctccgtggc ctcaagagaa cagctctctt gccccatggc cggacctccc caccctggcg ccaataaccg ccaacaccag tgggtgcca ggggttccgt gggagcggc cctagccggg gccctgctg gcctggccc gctggccc gttggaggca acctgtggt catcgtggcc atgcctgga ctccagact ccagaccatg accaacgtgt tcgtgacttc gctggccgca gccgacctg tgatgggact cctggtggtg ccgcccggcg ccacctggc gctgactggc cactggcgt tgggcccac tggctgcgag ctgtggacct cgggtgacct gctgtgtgtg accgccagca tcgaaacctt gtgcgccctg gccgtggacc</p>	Homo sapiens

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ttac					
643	Beta-3 adrenoceptor	NP_000016.1	MAPWPHESS LAPWPDPLTL APNTANTSGI PGVPWEAALA GALLALAVIA TVGGNLLVIV P	Homo sapiens	

55	688	Opsin, blue-sensitive	NM_001708	<p>CRCGRRLPPE PCAAARPALE PSVPARSS PAQRLCQRL DGASWGVG</p> <p>ggcatccatg agaaaatgt cggaggaaga gttttatctg ttcaaaaata tctcttcagt A</p> <p>ggggccgtgg gatggccctc agtaccacat tggccctgtc tgggctttct acctccaggc</p> <p>agctttcatg ggcactgtct tccttatagg gtccccactc aatgccatgg tgcgtggtggc</p> <p>cacactggc tacaaaaagt tgcggcagcc cctcaactac attctgttca acgtgtcctt</p> <p>cggaggcttc ctctctgtca tcttctgtg ttccctgtc ttctgtgcca cgtgtaacgg</p> <p>atacttctgc ttccgtgccc atgtttgtgc tttagggggc ttccctgggca ctgtagcagg</p> <p>tctgggttaca ggatgggtcac tggccttctt ggcctttgag cgctacattg tcatctgtaa</p> <p>gcccctgggc aacttccgtc tcagctccaa gcatgcactg acggtgggtc tggctacctg</p> <p>gaccattggc attggcgtct ccattcccac ctcttttggc tggagccggc tcatccctga</p> <p>gggacctgag tgttctctgt gccctgactg gtacacgtg ggcaccaaatt accgcagcga</p> <p>gtcctatacg tggttctctt tcatcttctg ctctattgtg cctctctccc tcatctgctt</p> <p>ctcctacact cagctgctga gggccctgaa agctgttgcg gctcagcagc aggagtcagc</p> <p>tacgacccag aaggctgaac gggaggtgag ccgcatgttg gttgtgatg taggatcctt</p> <p>ctgtgtctgc tacgtgccct acgggacctt cgccatgtac atggtcaaca accgtaacca</p> <p>tgggctggac ttacggcttg tcaccattcc ttcatctctc tccaagagt cttgcatcta</p> <p>caatcccatc atctactgct tcatgaataa gcagttccaa gcttgcata tgaagatggc</p> <p>gtgtgggaag gccatgacag atgaatccga cacatgcagc tcccagaaaa cagaagtctc</p> <p>tactgtctcg tctaccag ttggcccccac ctgaggagccc aatattggcc tgtttgcaac</p> <p>agctagaatt aaattttact t</p>	Homo sapiens
56	688	Opsin, blue-sensitive	NP_001699.1	<p>MRKMSEEFY LFKNISSVGP WDGPQYHIAP VWAFYLQAAF MGTVELIGFP LNAMVLVATL P</p> <p>RYKKLRQPLN YILNVSFSG FLICIFSVFP VFVASCNGYF VFGRHVCALE GFLGTVAGLV</p> <p>TGWSLAFIAF ERYIVICKPF GNFRSSKHA LTVLATWTI GIGVISPPFF GWSRFIPEGL</p> <p>QCSCGPDWYT VGTKYRSESY TWFLIFCFI VPLSLICFSY TQLLRALKAV AAQQESATF</p> <p>QKAEREVSRM VWMVGSFCV CYVPYAAFAM YMVNNRNHGL DLRLVTIPSF FSKSACIYNP</p> <p>IYYCFMKNQF QACIMRMVCG KAMTDESDFC SSQKTEVSTV SSTQVGPN</p>	Homo sapiens
57	692	Bombesin Receptor Subtype-3	NM_001727	<p>gagtatctgg atgtcttggg ttttctccc attctgttct gttctgttct cctaatacca A</p> <p>tctcgttact agacgtaggc attggacgtg acaatcaact gcatttgaac tgagaagaag</p> <p>aaatattaaa gacacagtct tcagaagaaa tggctcaag gcagcctcac tcacctaatc</p> <p>agactttaat ttcaatcaca aatgacacag aatcatcaag ctctgtggtt tctaacgata</p> <p>acacaaaataa aggatggagc ggggacaaact ctccaggaat agaagcattg tgtgccatct</p> <p>atattactta tgcgtgtatc atttcagtgg gcatccttgg aatgctatt ctcatacaag</p> <p>tctttttcaa gaccaaacc attgcaaacag ttccaaatat ttctaccacc agcctggctt</p> <p>ttggagatct tttacttctg ctaacttgtg tggcagtggg tgaactcac taccttgcag</p> <p>aaggatggct gttcgggaaga attggttga aggtgctctc ttctatccgg ctcacttctg</p> <p>ttgggtgtgc agtgttcaca ttaacaaattc tcagcgtga cagatacaag gcagttgtga</p> <p>agccactga gcgacagccc tccaatgcca tccgtgaagc ttgtgtaaaa gctgggtgcg</p> <p>tctggatcgt gtctatgata ttgtctctac ctgaggctat attttcaaat gtatacactt</p> <p>ttcgagatcc caataaaaat atgacatttg aatcatgtac ctcttatcct gtctctaaga</p> <p>agctcttgca agaaatacat tctctgctgt gcttcttagt gttctacatt attccactct</p> <p>ctattatctc tgtctactat tcttctgatt ctaggagccc ttacaaaagc acctgaaca</p>	Homo sapiens

58 692 Bombesin Receptor Subtype-3 NP_001718.1 Homo sapiens

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59 729 CXC Chemokine Receptor 5 NM_001716 Homo sapiens

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 tgaaggctgt ccttaccat ctgaccccc ctgggctgag agaactcac gcacctccca

60	729	CXC	NP_001707.1	aaaa	61	735	C-C	NM_001295	Chemokine Receptor 1	62	741	Chemokine Receptor 1	63	747	Chemokine Receptor 1	64	753	Chemokine Receptor 1	65	759	Chemokine Receptor 1	66	765	Chemokine Receptor 1	67	771	Chemokine Receptor 1	68	777	Chemokine Receptor 1	69	783	Chemokine Receptor 1	70	789	Chemokine Receptor 1	71	795	Chemokine Receptor 1	72	801	Chemokine Receptor 1	73	807	Chemokine Receptor 1	74	813	Chemokine Receptor 1	75	819	Chemokine Receptor 1	76	825	Chemokine Receptor 1	77	831	Chemokine Receptor 1	78	837	Chemokine Receptor 1	79	843	Chemokine Receptor 1	80	849	Chemokine Receptor 1	81	855	Chemokine Receptor 1	82	861	Chemokine Receptor 1	83	867	Chemokine Receptor 1	84	873	Chemokine Receptor 1	85	879	Chemokine Receptor 1	86	885	Chemokine Receptor 1	87	891	Chemokine Receptor 1	88	897	Chemokine Receptor 1	89	903	Chemokine Receptor 1	90	909	Chemokine Receptor 1	91	915	Chemokine Receptor 1	92	921	Chemokine Receptor 1	93	927	Chemokine Receptor 1	94	933	Chemokine Receptor 1	95	939	Chemokine Receptor 1	96	945	Chemokine Receptor 1	97	951	Chemokine Receptor 1	98	957	Chemokine Receptor 1	99	963	Chemokine Receptor 1	100	969	Chemokine Receptor 1	101	975	Chemokine Receptor 1	102	981	Chemokine Receptor 1	103	987	Chemokine Receptor 1	104	993	Chemokine Receptor 1	105	999	Chemokine Receptor 1	106	1005	Chemokine Receptor 1	107	1011	Chemokine Receptor 1	108	1017	Chemokine Receptor 1	109	1023	Chemokine Receptor 1	110	1029	Chemokine Receptor 1	111	1035	Chemokine Receptor 1	112	1041	Chemokine Receptor 1	113	1047	Chemokine Receptor 1	114	1053	Chemokine Receptor 1	115	1059	Chemokine Receptor 1	116	1065	Chemokine Receptor 1	117	1071	Chemokine Receptor 1	118	1077	Chemokine Receptor 1	119	1083	Chemokine Receptor 1	120	1089	Chemokine Receptor 1	121	1095	Chemokine Receptor 1	122	1101	Chemokine Receptor 1	123	1107	Chemokine Receptor 1	124	1113	Chemokine Receptor 1	125	1119	Chemokine Receptor 1	126	1125	Chemokine Receptor 1	127	1131	Chemokine Receptor 1	128	1137	Chemokine Receptor 1	129	1143	Chemokine Receptor 1	130	1149	Chemokine Receptor 1	131	1155	Chemokine Receptor 1	132	1161	Chemokine Receptor 1	133	1167	Chemokine Receptor 1	134	1173	Chemokine Receptor 1	135	1179	Chemokine Receptor 1	136	1185	Chemokine Receptor 1	137	1191	Chemokine Receptor 1	138	1197	Chemokine Receptor 1	139	1203	Chemokine Receptor 1	140	1209	Chemokine Receptor 1	141	1215	Chemokine Receptor 1	142	1221	Chemokine Receptor 1	143	1227	Chemokine Receptor 1	144	1233	Chemokine Receptor 1	145	1239	Chemokine Receptor 1	146	1245	Chemokine Receptor 1	147	1251	Chemokine Receptor 1	148	1257	Chemokine Receptor 1	149	1263	Chemokine Receptor 1	150	1269	Chemokine Receptor 1	151	1275	Chemokine Receptor 1	152	1281	Chemokine Receptor 1	153	1287	Chemokine Receptor 1	154	1293	Chemokine Receptor 1	155	1299	Chemokine Receptor 1	156	1305	Chemokine Receptor 1	157	1311	Chemokine Receptor 1	158	1317	Chemokine Receptor 1	159	1323	Chemokine Receptor 1	160	1329	Chemokine Receptor 1	161	1335	Chemokine Receptor 1	162	1341	Chemokine Receptor 1	163	1347	Chemokine Receptor 1	164	1353	Chemokine Receptor 1	165	1359	Chemokine Receptor 1	166	1365	Chemokine Receptor 1	167	1371	Chemokine Receptor 1	168	1377	Chemokine Receptor 1	169	1383	Chemokine Receptor 1	170	1389	Chemokine Receptor 1	171	1395	Chemokine Receptor 1	172	1401	Chemokine Receptor 1	173	1407	Chemokine Receptor 1	174	1413	Chemokine Receptor 1	175	1419	Chemokine Receptor 1	176	1425	Chemokine Receptor 1	177	1431	Chemokine Receptor 1	178	1437	Chemokine Receptor 1	179	1443	Chemokine Receptor 1	180	1449	Chemokine Receptor 1	181	1455	Chemokine Receptor 1	182	1461	Chemokine Receptor 1	183	1467	Chemokine Receptor 1	184	1473	Chemokine Receptor 1	185	1479	Chemokine Receptor 1	186	1485	Chemokine Receptor 1	187	1491	Chemokine Receptor 1	188	1497	Chemokine Receptor 1	189	1503	Chemokine Receptor 1	190	1509	Chemokine Receptor 1	191	1515	Chemokine Receptor 1	192	1521	Chemokine Receptor 1	193	1527</
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62	C-C Chemokine Receptor 1	NP_001286.1	735	<p>ctctgaaact gaacctctttt gggctggtat tgcctttggt ggtcatgatac atctgctaca caggattat aaagattctg ctaagacgac caaatgagaa gaaatccaaa gctgtccggtt tgatttttgt catcatgatac atcttttttc tcttttggac ccctacaat ttgactatac ttatttttgt tttccaagac ttcctgttca cccatgagtg tgagcagagc agacatttgg acctggctgt gcaagtgcg gagtgatcg ctaacagca ctgctgtgc aaccagtga tctacggcctt cgttggtag aggttcggga agttccggg cgagttgttc cacaggcgtg tggctgtgca cctggttaaa tggctccctt tcctctccgt ggacaggctg gagagggtca gctccacatc tccctccaca ggggagcatg aactctctgc tgggttctga ctcagaccat aggaggccaa cccaaaataa gcaggcgtga cctgccagc acactgagc agcagcctgg ctctccagc caggttctga ctcttggcac agcatggagt cacagccact tgggatagag agggaatgta atggtggcct ggggcttctg aggttcttgg ggttccagtc ttttccatga acttctcccc tggtagaaag aagatgaatg agcaaaaca aatattccag agactgggac taagtgtacc agagaagggc ttggactcaa gcaagatttc agatttctga cctattagat ttgtcaacaa agtaccacac tccccactat tgcctgcaca aaccaattaa accagtagt ggtgactgtg ggtcccatc aaagtgcgt cctaaagccat gggagacact gatgtatgag gaatttctgt tcttccatca cctccccccc cccgcccac tcccactgc aagaacttgg aaatagtgtat ttccacagt actccactct gagtcccaga gccaatcagt agccagcctc tgctccctt tcactccac cgcaggattt gggctcttgg aatcctggg aacatagaac tcatgacgga agagttaga cctaaacgaga aatagaaatg ggggaactac tgctggcagt ggaactaaga agcccttag gaagaatttt tatatccact aaaaataaac aattcaggga gtggcctaag cacgggccat atgaataaca tgggtgtcct cttaaaaatag ccataaaggg gagggactca tcatttccat ttacccttct ttcttgacta ttttccagaa tctctcttct tttcaagtgt ggtgatgtt tggtagattc taatggcttt attgcagcga ttaataacag gcaaaaggaa gcagggttgg tttcccttct ccatcttggc aaaaaaaaa aaaaa atgggtcaga gttccgactg ccatcttggc atctcttggc aaaaaaaaa aaaaa</p> <p>YKRLKNTS IYLLNLISD LFLFTLPFW IDYKLKDDWV FGDAMCKILS GFYTGLYSE IFFIILLTID RYLAIVHAVF ALRARTVTEG VITSIIIAL AILASMPGLY FSKTQWEFTH HTCSLHPHE SLREWKLFQA LKLNLFGLVL PLVMIICYT GIILKILRRP NEKSKAVRL IFVIMIIFFL FWTPYNLTIL ISVFQDFLFT HECEQSRHLD LAVQVTEVIA YTHCCVNPVI YAFVGERFRK YLRQLFHRV AVHLVKWLPE LSVDRLERS STSPSTGEHE LSAGF</p>	Homo sapiens
63	C-C Chemokine Receptor 3	NM_001837	737	<p>tttttcttct tctatcacag ggagaagtga aatgacaacc tcactagata cagttgagac A ctttgggtacc acatccctact atgatgacgt gggcctgctc tgtgaaaaag ctgataccag agcactgatg gccagtttg tgcctccgt gtaactccctg gtgttccactg tgggctctt gggcaatgtg gtggtgtgta tgatccctcat aaaaacacag aggtccgaa ttatgaccaa catctacctg ctcaaccctgg ccatctcga cctgctcttc ctcgtcaccc ttccattctg gatccactat gtcagggggc ataactgggt ttttggccat ggcattgtga agtcctctc agggttttat cacacaggct tgtacagcga gatctttttc ataactctgc tgacaatcga caggtacctg gccattgtcc atgctgtgtt tgcccttcca gcccggactg tcacttttgg tgtcatcacc agcatcgtca cctggggcct ggcagtgcta gcagctcttc ctgaatttat cttctatgag actgaagagt tgtttgaaga gactcttctg agtgcctctt acccagagga</p>	Homo sapiens

Accession	Gene	Protein	Species
64	C-C Chemokine Receptor 3	NP_001828.1	Homo sapiens
737	C-C Chemokine Receptor 3	NP_001828.1	Homo sapiens
65	C-C Chemokine Receptor 4	NM_005508	Homo sapiens
738	C-C Chemokine Receptor 4	NM_005508	Homo sapiens

66	738	C-C Chemokine Receptor 4	NP_005499.1	<p>gtccagcctg gcaagggttc acctgggctg aggcattcct cctcacacca ggcttgcttg caggcatgag tcagttctgat gagaactctg agcagtgcct gaatgaagtt gtaggtaata ttgcaaggca aagactattc ccttctaacc tgaactgatg ggtttctcca gaggaatgg cagactactg cctgatggag taaactgcta ccttttgctg tggcaaatgg gccccg MNPDIADTT LDESIVSNY IYESIPKPT KEGIKAFGL FLPLYSLVF VGLLGNV P VIVLFYKRL RSMTDVILN LAISDLFVF SLFPWGYAA DQWVFLGLC KMISWMLVG FYSGIFVML MSIDRYLAIV HAVFSLRART LTYGVITSLA TWSVAVFASL PGFLSTCYT ERNHTYCKTK YSLNSTWKV LSSLEINILG LVIPLGLMLF CYSMIIRTIQ HCKNEKNKA VKMIFAVVVL FLGFWTPYNI VLFLETLVEL EVLQDCTFER YLDYAIQATE TLAFVHCCLN PIIYFLGEEK FRKYILQLFK TCRGLFVLQ YCGLLQIYSA DTPSSSYTQS TMDHDLHDAL gtgagacagg ggtagtcgga ggcggggcac agccttcctg tgtgggttta cgcgccagag A agcgtcatgg acctgggga accaatgaaa agcgtgctgg tgggtgctct ccttgctatt ttccaggtat gcctgtgtca agatgaggtc acggacgatt acatcgga caacaccaca gtggactaca ctttgttcga gtctttgtgc tccaagaagg acgtcgga ctttaaaagcc tggttcctcc ctatcatgta ctccatcatt tgtttcgtgg gcctactgg caatgggctg gtcgtgttga cctatatcta ttccaagagg ctcaagacca tgaccgatac ctactgctc aacctggcgg tggcagacat cctctctc ctgaccttc ccttctggc ctacagcgcg gccaaagtcct gggtcttcgg tgtccacttt tgcaagctca tctttgcat ctacaagatg agcttcttca gtggcatgct cctacttctt tgcatcagca ttgaccgcta cgtggccatc gtccaggctg tctcagctca ccgcaacgt gcccgctcc tctcctcag caagctgtcc tgttgaggca tctggatact agccacagtg cctccatcc cagagctcct gtacagtgc ctccagagga gcagcagtg gcaagcagtg cgtgctctc tcatcacaga gcatgtggag gcctttatca ccattcaggt ggccagatg gtgatggct tctgggtcc cctgctggc atgagcttct gttaccttgt catcatccgc acctgctcc aggcagcaa ctttgagcgc aacaaggcca tcaaggatgat catcgtctg tctgtggtct tcatagtctt ccagctgccc tacaatggg tggctcctgg ccagacgggt gccaaactca acatcacag tagcacctgt gagtcagta agcaactcaa catcgctac gacgtcacct acagcctggc ctgctccgc tgtgcgtca accttctt gtacgcctc atcgcgctca agttccgcaa cgtctcttc aagctcttca aggacctggg ctgcctcag caggagcag tccggcagtg gtcttctgt cggcacatcc ggcgtcctc catgagtgt gaggccgaga ccaccaccac cttctccca taggcactc tctgctctgg actagagga cctctccag ggtccctgg gtgggtag ggagcagatg caatgactca ggacatccc ccgcaaaa cgtgctcagg aaaagcagct ctccctcag agtgcaagcc ctgctccaga agttagcttc acccaatcc cagctacctc aaccaatgcc gaaaagaca gggctgataa gctaacacca gacagacaac actgggaaac agaggctatt gtccctaaa ccaaaaactg aaagtgaag tccagaaact gttccacct gctggagtga aggggccaag gaggtgagt gaaagggcg tggagtggtc ctgaagagtc ctctgaatga acctctggc ctccacaga ctcaaatgct cagaccagct cttccgaaa ccaggcctta tctccaagac cagagatagt ggggagactt cttggcttgg tgaggaaaa cggacatcag ctggtcaaac aaactctctg aacctctcc tccatcgtt tcttactgt cctccaaagc agcgggaatg gcagtgcca gcggcccta aaagcacact catccctca ctgcccgt cgccctcca ggctctcaac aggggagagt gtggtgtttc ctgcaggcca</p>	Homo sapiens
67	741	C-C Chemokine Receptor 7	NM_001838	<p>gtgagacagg ggtagtcgga ggcggggcac agccttcctg tgtgggttta cgcgccagag A agcgtcatgg acctgggga accaatgaaa agcgtgctgg tgggtgctct ccttgctatt ttccaggtat gcctgtgtca agatgaggtc acggacgatt acatcgga caacaccaca gtggactaca ctttgttcga gtctttgtgc tccaagaagg acgtcgga ctttaaaagcc tggttcctcc ctatcatgta ctccatcatt tgtttcgtgg gcctactgg caatgggctg gtcgtgttga cctatatcta ttccaagagg ctcaagacca tgaccgatac ctactgctc aacctggcgg tggcagacat cctctctc ctgaccttc ccttctggc ctacagcgcg gccaaagtcct gggtcttcgg tgtccacttt tgcaagctca tctttgcat ctacaagatg agcttcttca gtggcatgct cctacttctt tgcatcagca ttgaccgcta cgtggccatc gtccaggctg tctcagctca ccgcaacgt gcccgctcc tctcctcag caagctgtcc tgttgaggca tctggatact agccacagtg cctccatcc cagagctcct gtacagtgc ctccagagga gcagcagtg gcaagcagtg cgtgctctc tcatcacaga gcatgtggag gcctttatca ccattcaggt ggccagatg gtgatggct tctgggtcc cctgctggc atgagcttct gttaccttgt catcatccgc acctgctcc aggcagcaa ctttgagcgc aacaaggcca tcaaggatgat catcgtctg tctgtggtct tcatagtctt ccagctgccc tacaatggg tggctcctgg ccagacgggt gccaaactca acatcacag tagcacctgt gagtcagta agcaactcaa catcgctac gacgtcacct acagcctggc ctgctccgc tgtgcgtca accttctt gtacgcctc atcgcgctca agttccgcaa cgtctcttc aagctcttca aggacctggg ctgcctcag caggagcag tccggcagtg gtcttctgt cggcacatcc ggcgtcctc catgagtgt gaggccgaga ccaccaccac cttctccca taggcactc tctgctctgg actagagga cctctccag ggtccctgg gtgggtag ggagcagatg caatgactca ggacatccc ccgcaaaa cgtgctcagg aaaagcagct ctccctcag agtgcaagcc ctgctccaga agttagcttc acccaatcc cagctacctc aaccaatgcc gaaaagaca gggctgataa gctaacacca gacagacaac actgggaaac agaggctatt gtccctaaa ccaaaaactg aaagtgaag tccagaaact gttccacct gctggagtga aggggccaag gaggtgagt gaaagggcg tggagtggtc ctgaagagtc ctctgaatga acctctggc ctccacaga ctcaaatgct cagaccagct cttccgaaa ccaggcctta tctccaagac cagagatagt ggggagactt cttggcttgg tgaggaaaa cggacatcag ctggtcaaac aaactctctg aacctctcc tccatcgtt tcttactgt cctccaaagc agcgggaatg gcagtgcca gcggcccta aaagcacact catccctca ctgcccgt cgccctcca ggctctcaac aggggagagt gtggtgtttc ctgcaggcca</p>	Homo sapiens

68	741	C-C Chemokine Receptor 7	NP_001829.1	<p>ggccagctgc ctccgctga tcaagccac actctggctt ccagatggg gatgacatgc actcagctct tggctccact gggatggag gagagacaa gggaaatgtc agggcgggg aggtgacag tggcgccca agccacag cttgttctt gttcttgc acagggactg aaaacctct ctcatttct cttctgatt cgttaagaga gcaacatttt acccacacac agataaagt ttcccttgag gaacacacag ctttaaaag MDLGRPKSV LVVALLVIFQ VCLCQDQDVT DYIGNTIVD YTLFESLCK KDVRNFKWF P LPIMYSIICF VGLLGLVW LTYIYFKRLK TMTDTYLNL AVADILFLIT LPFWAYSAAK sapiens SWVFGVHFC LIFAIYKMF FSGMLLLCI SIDRYVAIVQ AVSAHRHRAR VLLISKLSCV GIWILATVLS IPELLYSDLQ RSSSEQMRC SLITEHVEAF ITIQVAQWVI GFLVPLLAMS FCYLVIIRTL LQARNFERNK AIKVIIVAVV VFIVFQLPYN GVLAQTVAN FNITSSTCEL SKQLNIAYDV TYSLACVRCC VNPFLYAFIG VKERNDLFKL FKDLGCLSQE QLRQWSSSCRH IRRSMSVEA ETTTTFSP</p>	Homo sapiens
69	742	C-C Chemokine Receptor 8	AI733823	<p>TTTAAATTTA AAAACTTTAT TGGATAGCA TGTTAGCACC AGTGAACAGG GCATGGCACA A GAAGGTTTCC AAAACAAGTT TAGCATGAAG GATGCCATAT GCTGTTGCCA ACAACTAGAA CACGGTGACT AAAGACACAG TTCTGAATGT CCAGCACAAAC CTCTGGCCTG CAACTATGTT CAGTGATGAT GATAACAAG GTGGTGACTT GGAAGGAATC CCTATGTCAA GTGAGAAAAA AAATGATGT CTGACCTCCT TATATATGA AAAATATAC CTTCAGAGTC CGTCAGTAAG CTGGAAGAAG TGGATGTGA AGTTTAAAC ATCGATGATG GGTCTCCAGT TGTTCATCAA CCCATGGTGA AATAGCTGAA CGGTTCTGAA TCCTAATAGT TCCTAATAGT GAAGACATTA ACATTCGAGA AAAAGTGCT ACAGATTATA TGGTGAAT TGGTGAATG GGTGATGG CTTCTTGAAG GACTAGAGCA GTGTGATTC AAAACAGAAC AAGAAATCAC GTCAGTTTAT TGCCAAATAT GCTGTTGCA ACACCTAGAA CACNAATGACT GGAGACACAG TTGTGCGTGC A CTGGCAAC CTCCAGCTG TGTCTATGTT CAGTGATGAT GATGAGCAAG GTGGTGACTT TGAAGGATTT TGTATATCAA GTGAAAAGAA ATGATATCTG ACCTCCTTAC ATATCTAAAA CATATACCTT CAAAATCCAT CAATAAGCTG AAAGAAATAG ATATCAAAGA ATATTTTAAAC ATCATTAATG AGGCTCCAGT TATTCAATCA TTGACCAATG GTAATATAGC TGAATGATTT CTGAATCAAG CTGATTATGA TAATAGTGAT GATGAAGATG ATGTTAATAC TGCAGAAAAA GTGCCTATAA ATGACACAGT GAAA</p>	Homo sapiens
70	742	C-C Chemokine Receptor 8	LG6770	<p>ctccagagag gctgctgctc attgagctgc actcacatga ggatacagac tttgtgaaga A aggaattggc aacactgaaa cctccagac aaaggctgc actaaggctc cgctgccttg atggattata cacttgacct cagtgtaga acagtgaacc actactata cctgatatac ttctcaagcc cctgtgatgc ggaacttatt cagacaaatg gcaagttgct ccttgctgctc ttttattgcc tcctgtttgt attcagttct cttggaaaca gcctgggtcat cctggctcctt gtggtctgca agaagctgag gagcatcaca gatgtatacc tcttgaacct ggcctgtctt gacctgttt ttgtctctc cttccctctt cagactact attgctgga ccagtgggtg tttgggactg taatgtgcaa agtgggtgct ggcttttatt acattggctt ctacagcagc atgtttttca tcacctcat gagtgggac aggtacctgg ctgttgtcca tgcctgtgat gccctaaagg ttaggacgat caggatgggc acaacgtgt gcctggcagt atggctaacc gccattatgg ctaccatccc attgctagt ttttaccagg tggcctctga agatgggtgtt ctacagtgtt attcatttta caatcaacag actttgaagt ggaagatctt caccacttc aaaatgaaca ttttaggctt gttgatccca ttcaccatct ttatgttctg ctacattaaa</p>	Homo sapiens
71	742	C-C Chemokine Receptor 8	NM_005201	<p>ctccagagag gctgctgctc attgagctgc actcacatga ggatacagac tttgtgaaga A aggaattggc aacactgaaa cctccagac aaaggctgc actaaggctc cgctgccttg atggattata cacttgacct cagtgtaga acagtgaacc actactata cctgatatac ttctcaagcc cctgtgatgc ggaacttatt cagacaaatg gcaagttgct ccttgctgctc ttttattgcc tcctgtttgt attcagttct cttggaaaca gcctgggtcat cctggctcctt gtggtctgca agaagctgag gagcatcaca gatgtatacc tcttgaacct ggcctgtctt gacctgttt ttgtctctc cttccctctt cagactact attgctgga ccagtgggtg tttgggactg taatgtgcaa agtgggtgct ggcttttatt acattggctt ctacagcagc atgtttttca tcacctcat gagtgggac aggtacctgg ctgttgtcca tgcctgtgat gccctaaagg ttaggacgat caggatgggc acaacgtgt gcctggcagt atggctaacc gccattatgg ctaccatccc attgctagt ttttaccagg tggcctctga agatgggtgtt ctacagtgtt attcatttta caatcaacag actttgaagt ggaagatctt caccacttc aaaatgaaca ttttaggctt gttgatccca ttcaccatct ttatgttctg ctacattaaa</p>	Homo sapiens

72	742	C-C Chemokine Receptor 8	NP_005192.1	MDYTLDSLVT TVTDYVYPDI VVCCKLRISIT DVYLLNLALS DLLEFVSFPF MFFITLMSVD RYLAVVHAVY TLKWKIFTNF KMNILGLLIP FTIFMFCYIK ILHQLKRCQN HNKTKAIRLV THCCVNPVIY VDYIL	atctctgacc agctgaagag gtgtcaaaaac cacacaaga ccaaggccat caggttggtg ctcattgtgg tcattgcac tttacttttc tgggtcccat tcaacgtggt tcttttctc acttccctgc acagtatgca catcttggat ggatgtagca taagccaaca gctgacttat gccaccatg tcacagaaat catttctttt actcactgct gtgtgaaccc tgttatctat gcttttgttg gggagaagtt caagaacac cttctgaaa tatttcagaa aagttgcagc caaatcttca actactcagg aagacaaatg cctagggaga gctgtgaaa gtcatactcc tgccagcagc actcctcccg ttctccagc gttagctaca ttttgtgagg atcaatgaag actaaatata aaaaacattt tcttgaatgg catgctagta gcagtggaca aaggtgtggg tgtgaagggt ttccaaaaa agttcagcat gaaggatgcc atatatgtt ttgccaacac ttaaacaca atgactggag acatagtgtt gcctgccttg cacaacatca agcctgtgat tgtgtttatt gatgatgttg aacaagtgtt aacttaaa gattctgtat gccaaagtga aaaaaagat gctgcacct cttcatatgc aaaaatatac cttcagagac gtctagtagg ctggaagaag tggatatgta agttttgaca tcaatgatga ggctccagt ttctatgcat tgactgatgg tgaatggct ggagtgttc tgaatcaagg tgattgtgat tatagtga atgaagatga tgcattaat actgcataaa aagtgcctgt agatgacatg gtgaaaatat ttgacaggct tatggaaga ctacagcagc acgattcat aacagaacaa gaaattatct cagcttataa aatcaaacag agacttctag acaaaaacca ttgttgatga ggcagatgcc tctagaagag acgtttaaaa gccatcaaac caatgcctc atcttccctg gaggaccac ttcctgatcc ctcaactgtg tctgatgttt cttctcatgt aagaaataaa aaataaaaat aaaaaatat atatttgtat gtaactacag gaaaaataa aaaaataat agtggacagt aaaccttcaa tcaaaactca gtatcataag tagagactga aaacttgccg ttattgatg ttgttattaa cagctgatac aggtattctg ctgagtctac tgctgcctag ttacctgaa cacgtttttt cactattaat ggctgcctcat atttttact ttttaagtact tacgtgtgag taagtgaag aaaatgattg cttatcagta gtatcaatga tttactcaat atctgaatca ccttgattca gaaccatttc agctgtttca ccatcagtca atgaataaca gcctcattga tgtcaaaaac ttcaatatcc acttctttca gcctactgta gactctggaa gtatactttt tgcatatgta aggaagtcag atttttttt	QTNGKLLAV FYCLLFVFSL LGNSLVILVL P QTYLLDQWV FGTVMCKVVS GFYIGFYSS TTLCLAVWLT AIMATIPLLV FYQVASEDGV FTIFMFCYIK ILHQLKRCQN HNKTKAIRLV GCSISQQLTY ATHVTEIISF THCCVNPVIY PRESECKSS CQHQSSRSS VDYIL	Homo sapiens
73	752	CXC Chemokine Receptor 3	NM_001504	ccaaccacaa gaccacaaagc agaggggcag gcagcacacc accagcagc cagagcacca A gcccagccat ggtccttgag gtgagtacc accaagtgt aatgacgcc gaggttgccg ccctcctgga gaacttcagc tcttctctat gacttgaga aaacgagagt gactcgtgct gtacctccc gccctgccc caggacttca gcctgaact cgaccgggc ttcctgccag ccctctacag cctcctcttt ctgctggggc tgctgggcaa cggcgcggtg gcagccgtgc tgtgagccg gcggacagcc ctgagcagca ccgacacctt cctgctccc ctgactgtag cagacacgct gctgggtgctg aactgcgcg tctgggagc ggacgctgcc gtccagtggg tctttggctc tggcctctgc aaagtggcag gtgcctctt caacatcaac ttctacgcag	CCAACCAAA GACCAAAAGC AGAGGGCAG GCAGCACACC ACCAGCAGC CAGAGCACCA A GCCCAGCCAT GGTCTTGAG GTGAGTACC ACCAAGTGT AATGACGCC GAGGTGCGC CCCTCCTGGA GAACCTCAG CTCTCTCTAT GACTTGAGA AAACGAGAGT GACTCGTGCT GTACCTCCC GCCCTGCC CAGGACTTCA GCCTGAACT CGACCGGC TCTCTGCCAG CCCTCTACAG CCTCTCTT CTGCTGGGC TGCTGGGCAA CGCGCGGTG GCAGCCGTGC TGCTGAGCC GCAGACAGC CTGAGCAGCA CCGACACCTT CCTGCTCCC CTGACTGTAG CAGACACGCT GCTGGGTGCTG AACTGC CGTCTGGGAGC GTCCAGTGCC GTCCAGTGCG TGCTGGCTC TGGCCTCTGC AAAGTGGCAG GTGCCTCTT CAACATCAAC TTCTACGCAG	Homo sapiens	

74	CXC Chemokine Receptor 3	NP_001495.1	752	gagccctcct gctggcctgc atcagctttg accgctacct gaacatagtt catgccaccc agcttaccc cggggggccc cggcccgccg tgacctcac ctgctggct gtctgggggc tctgctgct tttgcccctc ccagacttca tcttctgtc gcccaccac gagagcgcc tcaacgccac ccactgccaa tacaacttcc cacagtggg ccgacaggt ctgcggtgc tgcagtgtt gctggtttt ctgctgccc tgcgtgtcat ggcctactgc tatgccaca tctggtgct gctggtggt tccagggccc agcgccctt cggggccatg cggctggtgg tgggtgctg ggtggccttt cccctctgct gacccctta tcacctggt gtgctggtg acatctcat ggacctgggc gctttggccc gaaactgg ccgagaaagc aggtagagc tggccaagtc ggtacctca ggcctgggt acatgactg ctgctcaac ccgctgctct atgctttgt aggggtcaag ttcggggagc ggatggat gctgctttg cgcctgggt gccccaaaca gagaggctc cagaggcagc catcgtctc cgcggggat tcacctggt ctgagacctc agaggctcc tactgggt tgtgaggcg gaatcgggc tccccttgc cccaatctc tgcctcccg gactccagg tctccctcc cctgcccgc tctgctctc ccacactcc cagctctgag gactgcaca ctgctctcc tagctgcca agccccatcc tgccgccga ggtggtgccc tggagccca ctgctctct cattggaaa ctaaaacttc atcttccca agtgcgggga gtacaaggca tggcgtagag ggtgctgccc catgaagcca cagccaggc ctccagctca gcagtactg tggccatggt ccccaagacc tctatattg ctctttatt ttatgtcta aaatcctgct taaaacttt caataacaa gatcgctcagg acaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa cctaaacaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa NP_001495.1	75	CXC Chemokine Receptor 4	NM_003467	753	gtttgttggc tgcggcagca ggtagcaag tgacgccag ggcctgagt ctcagtagc A caccgatct ggagaaccag cgtttaccat ggaggggagc agtatataa cttcagataa ctacaccgag gaaatgggt caggggacta tgactccatg aaggaacct gttccgtga agaaaatgct aatttcaata aaatctctt gccaccatc tactccatc tcttctaac tggcattgt ggcaatggt tggctatcct ggtcatggt taccagaaga aactgagaag catgacggac agtacaggc tgcacctgtc agtggccgac ctctctttg tcacacgct tccctctgt gcagttgat ccgtggcaaa ctggtactt gggaacttcc tatgcaaggc agtccatgtc atctacag tcaacctta cagcagtgc ctcatcctgg ccttcacag tctggaccgc tacctggcca tctgccagc caccacagc cagaggccaa ggaagctgtt ggctgaaaag gtggtctatg ttggcgtctg gatccctgc ctctgctga ctatccca cttcatcttt gccaacgtca gtgaggcaga tgacagatat atctgtgacc gcttctacc caatgacttg tgggtggtg tgttccagtt tcagcacatc atggttggcc ttatcctgcc tggattgtc atcctgtct gctattgcat tatcatctcc aagctgtcac actccaagg ccaccagaag cgcaaggccc tcaagaccac agtcactctc atctggtt tcttcgctg
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Homo
sapiens

Homo
sapiens

76	CXC Chemokine Receptor 4	NP_003458.1	753	Homo sapiens
77	Complement Component 3a Receptor 1	NM_004054	755	Homo sapiens

ttggtgcct tactacattg ggatcagcat cgactccttc atcctcctgg aatcatcaa
 gcaagggtgt gagttgaga acactgtgca caagtgatt tccatcacg aggccttagc
 tttctccac tgtgtctga acccatcct ctatgcttc ctggagcca aatttaaac
 ctctgccag cagcactca cctctgtgag cagagggtcc agcctcaaga tcctctccaa
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 cagtaaacac agatgataaa gactttttt tatacagataa ataactttt ttaagttac
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 ttgtcttgtg tttctttagt ttttgtgaag ttttaattgac ttatttatat aaattttttt
 tgtttcatat tgatgtgtgt ctaggcaga cctgtggcca agtcttagt tgcgtatgt
 ctctgtgtag gactgtagaa aagggaactg aacattccag agcgtgtagt gaatcacgta
 aagctagaaa tgatcccccag ctgtttatgc atagataatc tctccattcc cgtggaacgt
 ttttctgtt cttaagacgt gattttgctg tagaagatgg cacttataac caaagcccaa
 agtggatag aaatgctggt ttttcagttt tcaggagtgg gttgatttca gcacctacag
 tgtacagtct tgtattaagt tgttaataaa agtacaatgtt aaacttactt agtgttatg
 LVMGYQKKLR SMTDKYRLHL SVADLLFVIT LPFWAVDAVA NWYFGNFLCK AVHVIYTVNL
 YSSVLILAFI SLDRYLAIVH ATNSQRPRL LAEKVVYGV WIPALLLTIP DFIFANVSEA
 DRYICDRFY PNDLWVVVFQ FQHIMVGLIL PGIVILSCYC IISKLSHSK GHQKRKALKT
 TVILILAFFA CWLPYIIGIS IDSFILLEII KQCEFEFNTV HKWISITEAL AFFHCCLNPI
 LYAFLGAKFK TSAQHALLTSV SRGSSLKILS KGRGGHSSV STESESSFH SS
 atggcgctct tctctgtga gaccaatttca actgacctac tctcacagcc atggaatgag A
 cccccagtaa ttctctccat ggtcatttact agccttactt ttttactggg attgccaggc
 aatgggctgg tgcgtgggt ggctggcctg aagatgcagc ggacagtga cacaatttg
 ttcctccacc tcaccttggc ggacctctc tgcgtcctc ccttgccctt ctgcgtggct
 cacttggctc tccagggaca gtggccctac ggcaggttcc tatgcaagct catccctcc
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 tgccttgggt tattcaagcc aatctgtgt cagaatcatc gcaatgtagg gatggcctgc
 tctatctgtg gatgtatctg ggtgtggct tttgtgatgt gcatctcctg gttcgtgtac
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 gttcagccgc ctggagaaat gaatgatagg ttagatcctt cctctttcca acaaatgat
 catccttggg cagtccccac tgccttccaa cctcaaacat ttcaaagacc ttctgcagat
 tcactcccta ggggttctgc taggttaaca agtcaaaatc tgcattctaa tgcatttaa
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 agccactgg ataatctaga tgcctttctc tcaactcatt taaagctgtt ccttagcgt
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 ggccaatca cagatgacga tcaagtcca acacccctcg tggcaataac gatcactagg
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 gtgggtgggt ctgtcttct tgcctgctg actccatacc acatttttgg agtccgtgca
 ttgcttactg accagaaaaa tcccttgggg aaactctga tgcctggga tcatgtatgc

78	755	Complement Component 3a Receptor 1	NP_004045.1	<p>actgtgtga</p> <p>atgtctctag catctgcaa tagttgcttt aatcccttcc ttatgcctt ctgggggaaa</p> <p>gatttagga agaaagcaag gcagtcatt cagggcaatc tggaggcagc cttcagtgag</p> <p>gagctcacac gttccaccca ctgtccctca aacaatgtca ttccagaaag aaatagtaga</p> <p>actgtgtga</p> <p>MASFAETNS TDLISQWNE PPVILSMVIL SLTFLGLPG NGLVLMVAGL KMQRTVNTIW P</p> <p>FLHLLADLL CCLSLPFLA HLALQGWPY GRFLCKLIPS IIVLNMFAV FLTAISLDR</p> <p>CLVVEKPIWC QNHRNVGMAC SICGCIWVA FVMCIPFVY REIFTDNHN RCGYKFGLS</p> <p>SLDYPDFYD PLENRSLENI VQPPGEMNDR LDPSSFQND HPWTVPTVQ PQTFQRPASD</p> <p>SLPRGSARLT SQNLVSNVFK PADVVSPKIP SGFPIEDHET SPLNDSDAFL STHLKLFFSA</p> <p>SSNSFYESEL PQGFQDYNNL GQFTDDDDVP TPLVAITIR LVVGFLLPSV IMIACYSFIV</p> <p>FRMQRGRFAK SQSKTRFVAV VVAVFLVCW TPYHIFGVLS LLTDPETPLG KTLMSWDHVC</p> <p>IALASANSCE NPFLYALLGK DFRKKARQSI QGILEAAFSE ELTRSTHCPN NNVISERNST</p> <p>TV</p>	Homo sapiens
79	758	Complement Component 5a Receptor 1	NM_001736	<p>agggggagcc caggagacca gaacatgaac tccttcaatt ataccacccc tgattatggg A</p> <p>cactatgatg acaagatac cctggacctc aacacccctg tggataaac ttctaacacg</p> <p>ctgcgtgttc cagacatcct ggccttggtc atctttgcag tcgtcttctt ggtgggagtg</p> <p>ctgggcaatg cctgtgtggt ctgggtgacg gcattcgagg ccaagcgagc catcaatgcc</p> <p>atctggttcc tcaacttggc ggtagccgac ttctctctct gcttggcgt gccatcttgg</p> <p>ttcacgtcca ttgtacagca tcaccactgg ccttttggcg gggccgctcg cagcatcctg</p> <p>cctccctcca tctgtctcaa catgtacgcc agcatcttgc tctggccac catcagcgcc</p> <p>gaccgttcc tgcgtgtggt taaacccatc tgggtgccga acttccgagg ggcgggcttg</p> <p>gcctgatatg cctgtgccgt ggcttgggtt ttagccctgc tgcagaccat accctccttc</p> <p>ctgtaccggg tggtcgggga ggagtacttt ccacaaaagg tgttgtgttg cgtggactac</p> <p>agccacgaca aacggcggga gcagaccgtg gccatcttcc gcttggctct ggccttcttg</p> <p>tggcctctac tcacgctcac gatttgttac actttcatc tgctccggac gtggagccgc</p> <p>agggccacgc ggtccacca gacactcaag gtggtggttg cagtgtgtgc cagtttcttt</p> <p>atcttctggt tgcctacca ggtgacgggg ataagtatgt ccttcttggg gccatctgca</p> <p>cccaccttcc tgcgtctgaa taagctggac tccctgtgtg tctcctttgc ctacatcaac</p> <p>tgctgcatca accccatcat ctacgtgtgtg gccggccagg gcttccaggg ccgactgcgg</p> <p>aatccctcc ccagctcct ccggaacgtg ttgactgaag agtccgtggt tagggagagc</p> <p>aagtcaattca cgcgtccac agtggacact atggcccaag agaccaggc agtgtaggcg</p> <p>acagccctcat gggccactgt ggcctgatgt ccccttctt cccggccatt cctcctcttg</p> <p>tttcccttc cagacttgt ggtggtgtt accttagcta actaaccttc cctcatgttg</p> <p>cctgtcttc ccagacttgt cctcctttt ccagcgggac tcttctctc cttctctcat</p> <p>tgcgaagtga acacttctt ctaggggaga cctccccc cccacacccc cccacacac</p> <p>catcttcca tcccaggctt ttgaaaaaca aacagaaacc cgtgtatctg gatatattcc</p> <p>atatggcaat aggtgtgaac agggaaactca gaatacagac aagtagaaag attctcgctt</p> <p>aaaaaatgt attatttta tggcaagtgt gaaaatatgt aactggaatc tcaaaagtcc</p> <p>tttgggacaa aacagaagtc catggagtta tctaagctct tgaagttag ttaattttaa</p> <p>aaagaaaatt aggtgtgag cagtggtcta cgcctgtaat cccagaaact tgggaggcta</p> <p>aggtgggtgg atcacctgag gtcaagagtt ccagaccagg ctggccagca tgggtgaaacc</p>	Homo sapiens

80	758	Complement Component 5a Receptor 1	NP_001727.1	<p>ccgtctgtac taaaaataca aaaaattaac tgggcatggt agtgggtgccc tgtaatccca gtaacttggg aggtgaggt gggagaattg ctggaacctt ggaggtggag gttgtgtga gccatgatcg caccactgca ctctagcctg ggtgacggag ggaggtctctg tctcaaaagc aaagcaaaaa caaaacaaa aacacctaaa aacctgcag tttgtttgtt actttgtttt taaatatgc tttctatttt gagatcattg caaaccaac acaattgtaa gtaatgtatc agagggatct tgtgtaccct tcaccagcc tccccagc gcaacatctt gcaaaactac aatgtagtct cataaccagg atattgacat tgatacagtg aagatacagg acattctcat caccacagg atccccagga tgcccacttc ctccacccc cacaccag ccggtgccct aacccctggc aaccaggaat ccactctcca tttctataat gttgtcattt caagaatggt attcaatgga atcatatagt atgtaacctg ttttgagctt aaaaaaaaaa gtatacatga ctttaatgag gaaaaataaa atgaatattg aaaaaaaaaa ctttagag</p> <p>LVIFAVVFLV GVLGNALVVM P ILPSLILNM SFLYRVVREE SRRATRSTKT INCCINPIIY</p>	Homo sapiens
81	767	Calcitonin Receptor- like Receptor	NM_005795	<p>gcacgaggga acaacctctc tctctscagc agagagtgtc acctcctgct ttaggacctat A caagctctgc taactgaatc tcactctaact tgcaggatca cattgcaag ctttcacct ttcccacctt gcttgggtt aaatctcttc tgcggaatct cagaaagtaa agttccatcc tgagaatatt tcacaagaa tttccttaag agctggactg ggtcttgacc cctggaaattt aagaaattct taaagacaat gtcaaatatg atccaaaga aaatgtgatt tgagtctgga gacaattgtg catatcgtct aataataaaa acctacta gcctatagaa acaaatattt gaataataaa aacctact agcctataga aaacaatatt tgaagattg ctaccactaa aaagaaaact actacaactt gacaagactg ctgcaaaactt caattgggtca ccacaacttg acaaggttgc tataaacaa gattgctaca acttctagt tttgtttatc agcatatttc atttgggctt aatgatggag aaaaagtgtc cctgtattt tctggttctc ttgcttttt ttatgattct tgttacagca gaattagaag agagtctga ggactcaatt cagttgggag ttactagaaa taaaatcatg acagctcaat atgaatgtta ccaaaagatt atgcaagacc ccattcaaca agcagaaggc gtttactgca acagaacctg ggatggatgg ctctgctgga acgatgttgc agcaggaact gaatcaatgc agctctgccc tgattacttt caggactttg atccatcaga aaaagttaaa aagatctgtg accaagatgg aaactgggtt agacatccag caagcaacag aacatggaca aattataccc agtgaatgt taacacccc gagaaagtga agcttgcaact aaatttgttt tacctgacca taattgtctc attgcatcac tgctttatct ccttgccata tctttttatt tcaagagcct aagttgccc aggtattacct tacacaaaaa tctgttcttc tctttgttt gtaacctctg tgaacaatc attcacctca ctgcagtggc caacaaccag gccttagtag ccacaaatcc tgttagttgc aaagtgtccc agttcatcca tctttacctg atgggctgta attacttttg gatgctctgt gaaggcattt acctacacac actcattgtg gtggccgtgt ttgcagagaa gcaacattta atgtggtatt atcttcttgg ctgggggattt ccactgattc ctgcttgatt acatgccatt gctagaagct tatattacaa tgacaattgc tggatcagtt ctgataccca tctcctctac attatccatg</p>	Homo sapiens

82	767	Calcitonin Receptor-like Receptor	NP_005786.1	MEKKCTLYFL VLLPFFMILV EGVYCNRTWD GWLCWNDVAA WTNYTCQNVN THEKVKTALN FFSFVCNSVV TIIHLTAVAN IVWAVFAEKQ HLMWYFFLGM ALLVNLFFLL NIVRVLITKL AEVYDYIMH ILMHFQGLLV YTVSTISDGP GYSHDCPSEH ggggactacg gagagctctg tcccgaggac caggggatgc gagctcagcc taatcaaga caccttcgc accatcaca agacatcaaa ggtgacatgg ttcctttagg ggaagtccct	NP_005786.1	TAELEESPED SIQLGVTRNK GTESMQLCPD LFYLTIIHG NQALVATNPV GFPLIPACIH KPTHQAESNL STIFCFNGE LVNKSIDHIE NVLLKPENLY cagggagccg agggcctg gaaggatgc cccctgtg ctgaggttat gaagtcgatc ctgacctctc ctgacctcct catccaaaatt aggttacttc tccaagagaa gatgactg	NP_005786.1	TAELEESPED SIQLGVTRNK GTESMQLCPD LFYLTIIHG NQALVATNPV GFPLIPACIH KPTHQAESNL STIFCFNGE LVNKSIDHIE NVLLKPENLY cagggagccg agggcctg gaaggatgc cccctgtg ctgaggttat gaagtcgatc ctgacctctc ctgacctcct catccaaaatt aggttacttc tccaagagaa gatgactg	NP_005786.1	IMTAQYECYQ KIMQDPIQQA P VTKICDQDGN WFRHPASNRT GIFFYFKSL QCRITLHKNL YLMGCNYFWM LCEGIYHLTL NCWISSDTHL LYIHHGPICA LVPLLGIEFV LIPWRPEGKI QYKIQFGNSF SNSEALRSAS N ccgggcccaag ggagcttctg A gtcaccttct cagtcatttt ctagatggcc ttgcagatac tcaaatgaca ttcagtagca ccacagaaaat tccctttaac ggagacaacc cccagtagt	Homo sapiens
83	832	Cannabinoid Receptor 1	NM_001840	ggccaatttg tgctgtttta tcataccaa gttaaaagtt gagctactct tatcttggtg ctgaaggaaa gattgcagag agggtctttt ggtctctacc gaagaaactg gaatcaatac ttcgttagtgc gtcttacaca gtccttagtga acacttaaat cagaaaattt atataattga aactcaagga cttggaccaca gggaatgtca taaagaagag atccagctct atgtgggaaa cactatgcct gatgtgagc acaatacaact tttctgagct aaatggctgt aaaactaaac gacctagcta aggtctataa tcccatcttg atgtgggcag taactaccct ctcaaatgga ctatgaaaag caactgagta atctgtggc atatccatg ttctatatca ttaggaaaac tgtcttacc aacagtggga tctactgtat aaacaaatta atcttcttgg aattttgtaa tttatcttat agtctcaaat aatgcaacaa tgtgtgtatg aatagagctc ggaatgct	NM_001840	ctggtgaatc ttttttctt cggaatccaa tctgtacatg ccattgcttg gcattgaatt gaggtatatg actacatcat tctttaatgg agaggttcaa tttggaacag ctttccaac tcagtgatgg tccaggttat tccatgatat tgaaaatgtt atggtttgct cactgtttgg gccagaagac ttcaatatta tgactctgta gccagaagac ccttcacatg aaattagtag aaagaaaatc tggttgtcaa tactaacctg acatcaccaa ggtgtaagcc agttccagca ggcatgttg gccatgtatc aatgaaggg aaaaattagct ttttttccca gagtgcgta agtgaattat cctgtctggc gatctactca ttgtctgaca atgaacatgg tgtataatat atgtacacaa acactttctc agctgtaaat ataaattttg tataaaaga aaatcaatga tgaaaaatga gcttgtaaat caacctatgt aatttttaaa atactgtatc tgggctgatt ttttaataaa	NM_001840	ctggtgaatc ttttttctt cggaatccaa tctgtacatg ccattgcttg gcattgaatt gaggtatatg actacatcat tctttaatgg agaggttcaa tttggaacag ctttccaac tcagtgatgg tccaggttat tccatgatat tgaaaatgtt atggtttgct cactgtttgg gccagaagac ttcaatatta tgactctgta gccagaagac ccttcacatg aaattagtag aaagaaaatc tggttgtcaa tactaacctg acatcaccaa ggtgtaagcc agttccagca ggcatgttg gccatgtatc aatgaaggg aaaaattagct ttttttccca gagtgcgta agtgaattat cctgtctggc gatctactca ttgtctgaca atgaacatgg tgtataatat atgtacacaa acactttctc agctgtaaat ataaattttg tataaaaga aaatcaatga tgaaaaatga gcttgtaaat caacctatgt aatttttaaa atactgtatc tgggctgatt ttttaataaa	NM_001840	IMTAQYECYQ KIMQDPIQQA P VTKICDQDGN WFRHPASNRT GIFFYFKSL QCRITLHKNL YLMGCNYFWM LCEGIYHLTL NCWISSDTHL LYIHHGPICA LVPLLGIEFV LIPWRPEGKI QYKIQFGNSF SNSEALRSAS N ccgggcccaag ggagcttctg A gtcaccttct cagtcatttt ctagatggcc ttgcagatac tcaaatgaca ttcagtagca ccacagaaaat tccctttaac ggagacaacc cccagtagt	Homo sapiens

84	Cannabinoid Receptor 1	NP_001831.1	<p>cccagcagac caggtgaaca ttacagaatt ttacaacaag tctctctcgt ccttcaagga gaatgaggag aacatccagt gtgggagaa cttcatggag atagagtgtt tcatggctct gaacccagc cagcagctgg ccattgcagt cctgtccctc acgtgggca ccttcaagggt cctggagaac ctctgtgtgc tgtgcgtcat cctccactcc cgcagcctcc gctgcaggcc ttcctaccac ttcctcggca gcctggcgtt ggcagacctc ctggggagtg tcatttttgt ctcagcttc atgacttcc agtgttcca cgcgaagat agccgaacg tgtttctgtt caactgggt ggggtcacgg cctccttcac tctgcctgtt ggcagcctgt tctcacaagg catgacagg tacatatcca ttcacaggcc cctggcctat aagaggattg tcaccaggcc caaggccgtg gtggcgtttt gcctgatgtg gaccatagcc attgtgatcg ccgtgctgcc tctcctgggc tggaaactgc agaaactgca atctgtttgc tcagacattt tccacacat tgatgaaacc tacctgatgt tctggatcgg ggtcacaggc gtactgcttc tgttcactgt gtatgcgtac atgtatattc tctggaaggc tcacagccac gccgtccgca tgattcagcg tggcaccag aagagcatca tcatccacac gtctgaggt gggaaaggtac aggtgaccgg gccagaccac gccgcgatgg acattaggtt agccaagacc ctggtcctga tctgtgtggt gtgatcatc tgcctgggcc ctctgcttgc aatcatggtg tatgatgtct ttgggaagat gaacaagctc attaaagcgg tgtttgcatt ctgcagtatg ctctgcctgc tgaactccac cgtgaacccc atcatctatg ctctgaggag taaggacctg cgacacgctt tccggagcat gtttccctct tgtgaaggca ctgcgcaggc tctggataac agcatggggg actcggagctg cctgcacaaa cagcaaacac atgcagccag tgttcacagg gccgcagaaa cctgcataca gagcacggtc aagattgcca aggttaacct gtctgtgtcc acagacacgt ctgccgaggc tctgtgagcc tgatgcctcc ctggcagcac aggaaaagaa ttttttttt taagctcaaa atctagaaga gtctattgtc tcttgggtta ttttttttta actttaccat gctcaatgaa aaggtgattg ccacatgtca cttattgtct tagtttcctg ttgggctaact ctccgggggt tcgtaggaaa ccttt</p>	Homo sapiens
832	Cannabinoid Receptor 1	NP_001831.1	<p>MKSILDGLAD TTFRTITDLYVGSNDIQY EDIKGDMASK LGYFPQKEPL TSFRGSPFQE P KMTAGDNPQL VPADQVNITE FYNKSLSSEFK ENEENIQCGE NFMIDIECFMV LNPSQQLAIA VLSLTIGTFT VLENLLVLCV ILHSRSLRCR PSYHFIGSLA VADLLGSVIF VYSFIDFHV HRKDSRNVFL FKLGGVTSF TASVGSLELT AIDRYISIRH PLAYKRIVTR PKAVAFCLM WTIAIVIAVL PLLGNCEKL QSVCSDFPH IDETYLMEWI GVTSVLLFI VYAYMYILWK AHSHAVRMIQ RGTQKSIH TSEDGKVQVT RPDQARMDIR LAKTLVLIIV VLIICWGPLL AIMVYDVFEG MNKLIKTVFA FCSMLCLNS TVNPIIALR SKDLRHAFRS MFPSCEGTAQ PLDNSMGDSD CLHKHANNA SVHRAAFSCI KSTVKIAKVT MSVSTDTSAE AL</p>	Homo sapiens
833	Cannabinoid Receptor 2	NM_001841	<p>caggtcctgg gagagacag aaacaactg gactcctcag cccccggcag ctcccagtcg A ccagccacc acaacaac ccaagcctt ctagacaagc tcagtggaat ctgaagggcc caccctatgg aggaatgctg ggtgacagag atagccaatg gctccaagga tggcttggat tccaaacctc tgaaggatta catgatcctg atgggtcccc agaagacagc tgttgctgtg ttgtgactc ttctggcctt gctaaagtgc ctggagaacg tggctgtgct ctatctgac ctgtcctccc accaactccg ccggaagccc tcatacctgt tcattggcag cttggctggg gctgacttcc tggccagtgt ggtctttgca tgcagctttg tgaatttcca tgttttccat ggtgtggatt ccaaggctgt ctctcctgctg aagattggca gcgtgactat gaccttcaca gcctctgtgg gtagcctct gctgaccgcc attgaccgat acctctgctt gcgtatcca</p>	Homo sapiens

86	Cannabinoid Receptor 2	NP_001832.1	MEECWTEIA NGSKDGLDSN PMKDYMIISG PQKTAVALVC TLLGLLSALE NVAVLYLILS P	Homo sapiens
87	Leukocyte Antigen CD97	NM_001784	SHQLRRKPSY LFIGSLAGAD FLASVVFACS FVNFHFHGV DSKAVFLKXI GSVTMTFTAS VGSLLLTALD RYLCLRPYPS YKALLTRGRA LVTLGIMWVL SALVSYLPLM GWTCPPRPCS ELFPLIPNDY LLSWLLFIAF LFSGIIITYG HVLWKAHQHV ASLSGHQDRQ VPGMARMLRD VRLAKTIGLV LAVLLICWFP VLALMAHSLA TTLSDQVKKA FAFCSMLCLI NSMNPVIYA LRSGEIRSSA HCLAHWKC VRGLGSEAKE EAPRSSVTET EADGKITPWP DSRDLDSDC agctccaacc atgggagacc gcgtctttct cgtattctgt gtctggctga cctgcccgc tctgcccgc A agctgtgga gacggagacag cctgtccca ctcactcttt cgtattctgt gtctggctga cctgcccgc agctgaaacc caggactcca ggggctgtgc cgggtgtgc cctcagaact cctcgtgtgt caatgccacc gcctgtcgtc gcaatccagg gtccagctct tttctgaga tcatcaccac cccagcggag acttgtgacg acatcaacga gtgtgcaaca cgtcgaaaag tgtcatgcgg aaaattctcg gactgctgga acacagaggg gagctacgac tgcgtgtgca gcccgggata tgagcctgtt tctggggcaa aaacattcaa gaatgagagc gagaacacct gtcaagatgt ggagagatgc agctccgggc agcatcagtg tgacagctcc accgtctgct tcaacacct gggttcatac agctgcgcgt gccgcccagg ctggaagccc agacacggaa tcccgaata ccaaaaggac actgtctgtg aagatatgac ttctccacc tggaccccg cccctggagt ccacagccag acgctttccc gattcttoga caaagtccag gacctggga gagactccaa gacaaactca gccgaggtca ccatccagaa tgtcatcaaa ttggtggatg aactgatgga agctcctgga gacgtagagg ccctggcgcc accgtgccgg cacctcatag ccaccagct gctctcaaac ctgaaagata tcatgaggat cctggccaag agcctgccta aagggccctt	Homo sapiens

88	922	Leukocyte Antigen CD97	NP_001775.1	<p> caccacatt tcccttcga acacagagct gaccctgatg atccaggagc ggggggacaa gaagtcact atgggtcaga gcagcgacg catgaagctg aattggctg tggcagctgg agccaggat ccaggccccc ccgtggcggg catcctctcc atccagaaca tgacacatt gctggccaat gcctccttga acctgcattc caagaagcaa gccgaactgg aggagatata tgaagcagc atccgtggtg tccaactcag acgcctctct gccgtcaact ccactcttct gagccacaac aacaccaag aactcaactc cccactctct ttcgcttct cccacttga gtctccgat ggggagggcg gaagagacc tctggaagag gacgtgatgc ctgggccacg gcaggagctg ctctgtgctt tctggaagag tgacagcagc aggggagggc actgggcccac cgaggtctgc caggtgtctg gcagcaagaa cggcagcacc acctgccaat gcagccacct gagcagcttt acgatacctta tggctcatla tgacgtggag gactggaaag tgacctgat caccagggtg ggactggcg tgtaactctt ctgcctgctg ctgtgcatcc tcactttctt gctggtgctg cccatccagg gctcgcgcac caccatacac ctgcacctct gcactgacct cttcgtgggc tccacctct tccctggcgg catcagaac gaaggcgcc aggtggggct gcgtggccgc ctggtggcgg ggtgctgca ctactgttct ctggcgacct tctgtggat gagcctcgaa ggcctggagc tctactttct tgtggtggc gtgttccaag gccaggacct gagtagcgc tggctctgcc tgatcggcta tggcgtgcc ctgctcatg tggcgtctc ggctgccatc tacagcaagg gctacggcgg cccagatac tgcgtgttg accttgagca ggccttctc tggagcttct tgggacctgt gacctcatc atttgtgca atgctgtcat ttctgtgact accgtctgga agctcactca gaagttttct gaaatcaatc cagacatgaa gaaattaaag aaggcgaggg cgtgacctc cagcgccatc gcgcagctct tectgttggg ctgcacctgg gctttggccc tgttcatctt cgacgatgg agcttggctg tgacctatgt gtttaccatc ctcaactgcc tgcaggggcg ctctctctac ctgctgacct gcctgctcaa caagaaggtt cgggaagaat accggaagt ggcctgccta gttgctggg ggagcaagta ctcagaatc acctccacca cgtctggcac tggccaaat cagacccggg cctcagggc atcagagtcc ggcataatgaa ggcgcatggt tctggacggc ccagcagctc ctgtggccac agcagctttg tacacgaaga ccatccatcc tccctctctc caccactcta ctccctccac cctccctccc tgatccctg tgccaccagg agggagtggc agctatagtc tggcaccaaa gtccagaca ccagtgggg tggagtctga gccactgttc ctgctgctgg ctgacctctt gctccacctt gtgacctagg gtggggacag ggcctggccc agggctgcaa tgcagcatgt tgccctggca cctgtggcca gtactcggga cagactaagg gcgcttgctc catcctggac tttctctctc atgtctttgc tgcagaactg aagagactag gcgctggggc tcagcttccc tcttaagcta agactgatgt cagaggcccc atggcagggc ccttggggc cactgacctga ggctcaggt acagaggcct gccctgctg gccgggcagg aggttctcac tgttgggaag gtgtgacg tgtgtaatg tgtttttatc tgttaaaatc tttcagtggt gacacttaa attaaacaca tgcatacaga aaaaaaaaaa aaaaaaaaaa a </p>	<p> FSEIITPTE P ENTCQDVDEC WTPPPGVHSQ TVCEDMTFT DVEALAPPVR MGQSSARMKL IRGVQLRRLS AVNSIFLSHN </p>	<p> Homo sapiens </p>
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89	941	EMR1 Hormone NM_001974 Receptor	NTKELNSPIL FAFSHLESSD GEAGRDPPEAK DVMPGPRQEL LCAFWKSDSD RGGHWATEVC QVLGSKNGST TCQCSHLSSF TILMAHYDVE DWKLTLLTRV GLALSFLCLL LCILTFLLR PIQGSRTTIH LHLICICLFVG STIFLAGIEN EGGQVGLRCR LVAGLLHYCF LA AFCWMSLE GLELYFLVVR VFQOGLSTR WLCLIGYGP LLIVGVSAAI YSKGYGRPRY CWLDFEQGFL WSFLGPVTFI ILCNAVIFVT TWKLTQKFS EINPDMKKLK KARALTITAI AOLFLLGCTW VGLFIEDDR SILVTIVFTI LNCLOGAFLY LLHCLLNKKV REEYRKWACL VAGGSKYSEF TSTTSGTGHN QTRALRASES GI	Homo sapiens
			ctaaagtgtt ttctcttgaa tgacagaact acagcataat gcgtggcttc aacctgctcc A tctctgggg atgtgtgtgt atgcacagct gggaaggcca cataagacc acacggaaac caaacacaaa gggtaataac tgtagagaca gtacctgtg cccagcttat gccacctgca ccaatacggg ggacagttac tattgcactt gcaaacaaagg ctctctgtcc agcaatgggc aaaatcactt caaggatcca ggagtgcgat gcaaatatat tgatgaatgt tctcaaaagcc cccagccctg tggctctaac tcactctgca aaaacctgtc agggaggtac aagtgcagct gtttagatgg ttctcttctt cccactggaa atgactgggt cccagggaaag ccgggcaatt tctcctgtac tgatatcaat gagtgcctca ccagcagggt ctgccctgag catctgact gtgtcaactc catgggaagc tacagttgca atccaagagc ttgcccagag catgcaactt ccacctgtga agacgtgaat gaatgtgcag atccaagagc ttgcccagag catgcaactt gtaataacac tgttggaac tactcttgtt tctgcaacc aggatttgaa tccagcagtg gccacttgag ttgccagggt ctcaaaagcat cgtgtgaaga tattgatgaa tgcactgaaa tgtgcccact caattcaaca tgcaccaaca ctctctggag ctacttttg acctgccacc ctggcttgcc accaagcagt ggacagttga atttccagaga ccaaggagtg gaatgtagag atattgatga gtgccgccaa gatccatcaa cctgtgtgct taattctatc tgcaccaatg ccctgggtc ctacagctgt ggctgcattg taggctttca tcccaatcca gaaggtctcc agaaagatgg caacttcaag tgcacaaagg ttctcttcaa atgtaaggaa gatgtgatac ccgataataa gcagatccag caatgccaa aggaaccgc agtgaacct gcataatgtct ccttttgtc acaataaaat aacatcttca agacttttg ccaagtgtgt gaaaaataaa cgaccgtagt ttctctgaag aatacaactg agactttgt cctgtgtctt aaacaaatat ccatgtggac taaattcacc aggaagaga cgtcctcctt gcccacagtc ttctggaga gtgtggaag catgacactg gcattctttt gaaacccct agcaaatgtc actccggctg ttcggggcga atacttagc attgagagca agttatcaa caaagaatgc agtgaagaga atgtgacgtt ggacttggtg gccaaagggt ataatgtaa gatcgggtgt tccacaattg aggaatctga atccacagag accactgtg tggcttttgt ctcttttgt ggcattggaat cggttttaaa tgagcgcttc ttccaagacc accaggctcc ctgaccacc tctgagatca agctgaagat gaattctga gtctgtggg gcataatgac agtgaagaag aaagacggct tctcagatcc aatcatctac actctggaga acgttcagcc aaagcagaag tttagagaggc ccatctgtgt ttcttgagc actgatgta aggttggaag atggacatcc tttagctgtg tgatcctgga agcttctgag acatatacca tctgcagctg taatcagatg gcaaatcttg ccgttatcat gggtctggg gagctcaga tggacttttc ctgtacatc attagccatg taggcattat catctccttg gtgtgcctcg tcttgacctc cgccaccttt ctgctgtgtc gtccatccg aaatcacaa accctacctc acctgacact ctgctgtgtg ctctctctgg cgaagactct ctctctgcc ggtatacaca agactgaca caagacgggc tgcgccatca	

90	EMR1 Hormone NP_001965.1	MRGNLLLEW	GCCVMAHWEH	HIRPTRKENT	KGNNCRDSTL	CPAYATCNT	VDSYYCTCKQ	P	Homo sapiens
941		GFLSSNGQNH	FKDPGVRCKD	IDECSSQSPQ	CGPNSSCKNL	SGRYKCSCLD	GFSSPTGNDW		
		VPGKPGNFSC	TDINEICTSR	VCPEHSDCVN	SMGSYSQSCQ	VGFIERNSTC	EDWNECADPR		
		ACPEHATCNN	TVGNYSFCFN	PGFESSSGHL	SCQGLKASCE	DIDECEMCP	INSTCNTPG		
		SYFCTCHPGF	APSSGQLNFT	DQGVCECRDID	ECRQDPSTCG	PNISCTNALG	SYSCGCIYGF		
		HPNPEGSKQD	GNFSCQVRLE	CKKEDVIPDN	KQIQCCQEGT	AVKPAYVSFC	AQINNIFSVL		
		DKVCENKTV	VSLKNTTESF	VPVLKQISMW	TKFTKEETS	LATVFLESVE	SMTLASFWKP		
		SANVTPAVRA	EYLDIESKVI	NKECSEENV	LDLVAKGDKM	KIGCSTIEES	ESTETTGVA		
		VSFVGMESVL	NERFFQDHOA	PLTTSEIKLK	MNSRVVGGIM	TGEKKDGFSD	PIIYTLNVQ		
		PKQKFERPIC	VSWSTDVKG	RWTSFGCVIL	EASETYTICS	CNQMANLAVI	MASGELTMDF		
		SLYIIISHVGI	IISLVCLVLA	IATFLLCRSI	RNHNTYLHLH	LCVCLLLAKT	IFLAGIHKTD		
		NKTGCAIAG	FLHYLFLACF	FWMLVEAVIL	FLMVRNLKVV	NYFSSRNIMK	LHICAFGYGL		
		PMLVVVISAS	VQPQGYGMHN	RCWLNTETGF	IWSFLGPVCT	VIVINSLLLT	WTLWILRQL		
		SSVNAEVSTL	KDTRLITFKA	FAQLFILGCS	WVLGFIQIGP	VAGWMAYLFT	IINSLQGAFI		
		FLIHCLLNGQ	VREYKRWIT	GKTKPSSQSQ	TSRILLSSMP	SASKTG			
91	G Protein-Coupled Receptor GPR30	NM_001505	ggaacacgac	actagaagt	aggagtga	ttcgctgaag	ttccctcttg	aggaagacc	A
965			acccctccgc	cttgtagacc	ggggtggcg	gtgcctgagg	accccttcgg	cctggacagc	
			ccacgcgggc	ttggggggcc	tcgctctgcc	ctcatggg	ggccatcggt	tccggaagcg	
			gcgagtga	attcaaatgg	ccagttaggg	gcgcactcgg	aagtggcgc	cccgcgatg	
			gcagttcagc	ggccccgaga	gtccggggag	ggaggtttat	ttccgcctg	cacgagactg	
			tgaatccgc	aacctagc	aggagggcg	gccttggtg	ggaagagcc	accaacatct	
			ggacggcagg	taccagaga	gtgagcagct	ccacgggga	ctgtgcacg	tggccgacac	
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			gcctttcttg	ctttcaata	tgctatggag	ccacagtga	ggacagttag	ttcctgcagg	
			agcctacct	gaaatctctt	ctcagcttaa	catggaaatg	aggatccac	cagccccaga	
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			gagttctga	gaacagacc	aaattcaatg	gcatgaccaa	gaacacctgg	ctaccatttt	
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92 965 G Protein- NP_001496.1 MDVTSQARGV GLEMPGTAQ PAAPNTTSP E LNLSHPLLGT ALANGTGELS EHQQYVIGLF P Homo

93	978	Coupled Receptor GPR30	Cholecystostoki nin A Receptor	NM_000730	LSCLYTIFLF PIGFVGNILI LVVNISFREK MTIPDLYFIN LAVADLILVA DSLIEVFNH	sapiens
					ERYDIAVLC TEMSLEQVN MYSSVFELTW MSFDRIYALA RAMRCSLEFRT KKHARLSGGL	
94	978	Coupled Receptor GPR30	Cholecystostoki nin A Receptor	NM_000730	IWMASVSATL VPFTAVHLQH TDEACFCFAD VREVQWLEVT LGFIVPFALI GLCYSLIVRV	sapiens
					LVRAHRRHGL RPRRQKALRM ILAVLVFEV CWLPENVEIS VHLQRTQPG AAPCKQSPRH	
95	978	Coupled Receptor GPR30	Cholecystostoki nin A Receptor	NM_000730	AHPLTGHIWN LAAFNSCLN PLIYSFELGET FRDKRLRYIE QKTNLPALNR FCHAALKAVI	sapiens
					PDSTEQSDVR ESSAV	
96	978	Coupled Receptor GPR30	Cholecystostoki nin A Receptor	NM_000730	ggaatggctg aaaaaagcaca cacctggaaa tcactccctc cctgctcctc cagcgaggt A	Homo
					tgcatctgag agacgcttcg gtcattagag gaatgagcgg ggagtgaaga attcaccagc	sapiens
97	978	Coupled Receptor GPR30	Cholecystostoki nin A Receptor	NM_000730	ttctcagcac ttggtgaaa gcagcagga aggatgatg tggttgacag cctcttctg	
					aatggaagca acataactcc tcctctgtgaa ctgaggctcg aaaaatgagac gcttttctgc	
98	978	Coupled Receptor GPR30	Cholecystostoki nin A Receptor	NM_000730	ttggatcagc cccgtccttc caaagatgg cagccagcgg tgcagattct cttgtactcc	
					ttgatattcc tgctcagcgt gctgggaac acgctgtgca tcaccgtgct gattcgggaa	
99	978	Coupled Receptor GPR30	Cholecystostoki nin A Receptor	NM_000730	aagcggatgc ggacgggtcac caacatcttc ctccctccc tggctgtcag cgacctcatg	
					ctctgtctct tctgcatgcc gttcaacctc atccccaaac tgcctcaagga ttctcatctc	
100	978	Coupled Receptor GPR30	Cholecystostoki nin A Receptor	NM_000730	gggagcgccg ttgcaagac caccacctac ttcatgggca cctctgtgag tgtatctacc	
					tttaactctg tagccatctc tctagagaga tatgggtgca ttgcaaac cttacagctc	
101	978	Coupled Receptor GPR30	Cholecystostoki nin A Receptor	NM_000730	cgggtctggc agacaaaatc ccatgctttg aaggtgattg ctgctacctg gtgctttcc	
					tttaccatca tgactccgta cccatttat agcaacttgg tgccttttac caaaaaaac	
102	978	Coupled Receptor GPR30	Cholecystostoki nin A Receptor	NM_000730	aaccagaccg cgaatatgtg ccgctttcta ctgccaaatg atgttatga cgagtcctgg	
					cacacattcc tgttactcat cctctttctt attccttgaa ttgtgatgat ggtggcatat	
103	978	Coupled Receptor GPR30	Cholecystostoki nin A Receptor	NM_000730	gattaatct ttttggact ctaccagga ataaaattgt aggtagacca gaagaagtct	
					gctaaagaaa ggaacacctag caccaccagc agcggcaaat atgaggacag cgatgggtgt	
104	978	Coupled Receptor GPR30	Cholecystostoki nin A Receptor	NM_000730	tacctgaaa agaccaggcc cccgaggag ctggagctcc ggcagctgc caccggcgag	
					agcagcaggc ccaaccgcat ccgagtaaac agctccgag ccaacctgat ggccaagaaa	
105	978	Coupled Receptor GPR30	Cholecystostoki nin A Receptor	NM_000730	agggtgatcc gcattgctat cgtcatcgtg gtctctctct tctgtgctg gatgcccatc	
					ttcagcgcca acgcttgccg ggcctacgac accgctccg cagagcgccg cctctcagga	
106	978	Coupled Receptor GPR30	Cholecystostoki nin A Receptor	NM_000730	accccatctt ccttcactct cctcctgtcc tacacctct cctgcgtcaa ccccatcatc	
					tactgcttca tgaacaaaag cttccgcttc ggttctatgg ccaccttccc ctgctgcccc	
107	978	Coupled Receptor GPR30	Cholecystostoki nin A Receptor	NM_000730	aatcctggtc cccaggggc gagggagag gtgggggag aggaggaag cgggaccaca	
					ggagcctctc tgtccaggtt ctcgtacag catatgagt cctcgggtgc accccagtga	
108	978	Coupled Receptor GPR30	Cholecystostoki nin A Receptor	NM_000730	gatgtccctt gaccctcac cgcagaaga aggcaggag gaggcagaga agaaagaacg	
					gaagaagaga tcaggaagag aaggagcaga gcagagctga tggagaaga aggtcccatc	
109	978	Coupled Receptor GPR30	Cholecystostoki nin A Receptor	NM_000730	tccagtgga actcttcaag gtctcttttc atccttcac tgattccaga gcactgctcc	
					agtggggcca tgattgggtt ctaggcagtt caaagcagga tatgttaagt aacactcaac	
110	978	Coupled Receptor GPR30	Cholecystostoki nin A Receptor	NM_000730	catcag	
					MDVVDLSLVN GSNITPPCEL GLENETFLCL DQPRPSKEWQ PAVQILLYSL IFLLSVLGNT P	Homo
111	978	Coupled Receptor GPR30	Cholecystostoki nin A Receptor	NM_000730	LVITVLRNK RMRTVTNIFL LSLAVSDML CLFCMPFNLI PNLLKDFIFG SAVCKTITYF	sapiens
					MGTSVSVSTF NLVAISLERY GAICKPQSR VWQTKSHALK VIAATWCLSF TIMTPYPIYS	
112	978	Coupled Receptor GPR30	Cholecystostoki nin A Receptor	NM_000730	NLVPFTKNNN QTANMCRFL PNDVMQSWH TFLLLILFLI PGIVMMVAY LISLELYQGI	
					KFEASQKSA KERKPTTSS GKYEDSDGKY LQKTRPRKL ELRQLSTGSS SRANRIRNS	
113	978	Coupled Receptor GPR30	Cholecystostoki nin A Receptor	NM_000730	SAANLMAKRR VIRMLIVIV LFFLCWMPIF SANAWRAYDT ASAEERLSGT PISFILLISY	

95	1103	Corticotropin releasing factor Receptor 2	NP_001883	TSSCVNPIIY CFMNRFRLLG FMATFPCCPN PGPPGARGEV GEEEGGTTG ASLSRFSYSH MSASVPPQ	atggacgagg cactgtctcca cagcctgtctg gaggccaact gcagcctggc gctggctgaa A gagctgtctt tggacggctg ggggcccacc ctggaccaccg aggttcctta ctctactgc aacacgacct tggaccagat cggaaactgc tggcccgcga cgcgtgcgg agccctcgtg gagagccctt gggccagta cttcaacggc gtcaagtaca acagaccgg gaatgcctat cgagaatgct tggagaatgg gactggggc tcaaaatca actactaca tgtgagccc attttgatg acaagcagag gaagtatgac tgcactacc ccatgcctt tgcgtcaac tacctggcc actgcgtatc tgtggcagcc ctgggtggcc cttcctgtt tttcctggcc ctgcggagca ttcgtgtctt gcggaatgtg attcaactga acctcatcac cacctttatc ctgcgaaatg tcatgtggtt cctgtctcag ctggttgacc atgaagtga cgagagcaat gaggtctggt gccactgcat caccaccatc ttcaactact tctggtgtgac caacttcttc tggatgtttg tggaaaggct ctacctgcac acggccattg tcatgacctc ctccactgag cgctgcgca agtgcctctt ctcttctatc gatatgtgca tccccctccc catcatcttc gcctgggcca tcggcaagct ctactatgag aatgaacagt tctggttttg caaggagcct ggcagacctg tggactacat ctaccaaggc cccatcttc tctgtctct gatcaattc gtatttctgt tcaacatcgt caggatccta atgacaaagt tacgcgcgtc caccacatcc gagacaatcc agtacagaa ggcagtgaag gccacccctg tgcctctgcc cctcctgggc atcacctaca tgcctctctt cgtcaatccc ggggaggagc acctgtcaca gatcatgttc atctatttca actcctctt cagtcctgtt caggtgttct tctgtctctt cttctactgc ttcttcaatg gagaggtggt ctacgcctg aggaagagt ggcacgcgt gcaggacct cactccttc ggtcccat ggcggggc atgtccatcc ctacatcac cacacgcatc agcttcaca gcatcaagca gacggccgt gtgtgaccc tgggtgccc acctgcacag ctccctgtc ctctccacc ttctctctt ggttctctg tctgggagc gctctctgtg ggcaggagat gggaggggag agaccagctc tccagcctg caggaaagag ggggtgcggc agccaaaggg gactgcaagg gacagggat agtgggggc accaggctca gcgcaagag aagcagaggg aattcacagg acccctgag aagagccagt cagatgtcty caggcattg cccatccag cctctctggc caggcccta ctggggccag agcagagaag gacctgtcca acacacacag ctatttatag tagcacacac aggtctccc tgcctactc atggagccag cagccaggca atggtgtggt cctgcactg ccttggaact ccacactcag tgggtgccc cagttgggtg ggttaacgac aagcaaaagga tcagtgtggc tgcctatcc cagggtgtc acctagagag gctcactgt accccacct gttcctgtg cccctcccca gccatcctcc ccgccttggg gctccatga aggatgcagg ctccaggcc tggcttctc tcttgggaga ccccctctct gcttagtcca cagattagc aatcaaggaa gacgccatca gggagccac atccttagtc aaccagtgc atcgtgcgg gcaaaatgag gagcagagc atggagagg gagcgtggg atgggaatag cagaaccacc atgtcttcag tgattgaaac tcatacccca ttgccccttg cctccagtc tccccttcag aaacatctct gctctctgtg aaataaacca tgctcttgg	Homo sapiens
96	1103	Corticotropin releasing factor	NP_001874.1	MDAALLHSLL ERPCPEYENG VKYNTTRNAY RECLENGTWA SKINYSQCEP ILDDKQRKYD LHYRIALVNVN YLGHCVSVAA LVA AFLFLA LRSIRCLRNV IHNWLTTFI LRNVWVFLQ LVDHEVHESN	atggacgagg cactgtctcca cagcctgtctg gaggccaact gcagcctggc gctggctgaa A gagctgtctt tggacggctg ggggcccacc ctggaccaccg aggttcctta ctctactgc aacacgacct tggaccagat cggaaactgc tggcccgcga cgcgtgcgg agccctcgtg gagagccctt gggccagta cttcaacggc gtcaagtaca acagaccgg gaatgcctat cgagaatgct tggagaatgg gactggggc tcaaaatca actactaca tgtgagccc attttgatg acaagcagag gaagtatgac tgcactacc ccatgcctt tgcgtcaac tacctggcc actgcgtatc tgtggcagcc ctgggtggcc cttcctgtt tttcctggcc ctgcggagca ttcgtgtctt gcggaatgtg attcaactga acctcatcac cacctttatc ctgcgaaatg tcatgtggtt cctgtctcag ctggttgacc atgaagtga cgagagcaat gaggtctggt gccactgcat caccaccatc ttcaactact tctggtgtgac caacttcttc tggatgtttg tggaaaggct ctacctgcac acggccattg tcatgacctc ctccactgag cgctgcgca agtgcctctt ctcttctatc gatatgtgca tccccctccc catcatcttc gcctgggcca tcggcaagct ctactatgag aatgaacagt tctggttttg caaggagcct ggcagacctg tggactacat ctaccaaggc cccatcttc tctgtctct gatcaattc gtatttctgt tcaacatcgt caggatccta atgacaaagt tacgcgcgtc caccacatcc gagacaatcc agtacagaa ggcagtgaag gccacccctg tgcctctgcc cctcctgggc atcacctaca tgcctctctt cgtcaatccc ggggaggagc acctgtcaca gatcatgttc atctatttca actcctctt cagtcctgtt caggtgttct tctgtctctt cttctactgc ttcttcaatg gagaggtggt ctacgcctg aggaagagt ggcacgcgt gcaggacct cactccttc ggtcccat ggcggggc atgtccatcc ctacatcac cacacgcatc agcttcaca gcatcaagca gacggccgt gtgtgaccc tgggtgccc acctgcacag ctccctgtc ctctccacc ttctctctt ggttctctg tctgggagc gctctctgtg ggcaggagat gggaggggag agaccagctc tccagcctg caggaaagag ggggtgcggc agccaaaggg gactgcaagg gacagggat agtgggggc accaggctca gcgcaagag aagcagaggg aattcacagg acccctgag aagagccagt cagatgtcty caggcattg cccatccag cctctctggc caggcccta ctggggccag agcagagaag gacctgtcca acacacacag ctatttatag tagcacacac aggtctccc tgcctactc atggagccag cagccaggca atggtgtggt cctgcactg ccttggaact ccacactcag tgggtgccc cagttgggtg ggttaacgac aagcaaaagga tcagtgtggc tgcctatcc cagggtgtc acctagagag gctcactgt accccacct gttcctgtg cccctcccca gccatcctcc ccgccttggg gctccatga aggatgcagg ctccaggcc tggcttctc tcttgggaga ccccctctct gcttagtcca cagattagc aatcaaggaa gacgccatca gggagccac atccttagtc aaccagtgc atcgtgcgg gcaaaatgag gagcagagc atggagagg gagcgtggg atgggaatag cagaaccacc atgtcttcag tgattgaaac tcatacccca ttgccccttg cctccagtc tccccttcag aaacatctct gctctctgtg aaataaacca tgctcttgg	Homo sapiens

97	1240	Dopamine Receptor D1	NM_000794	Receptor 2	<p> EVWCHCITTI FNYFVVTNEF WMFVEGCVLH TAIIVMTYTE RLKCLFLFI GWCIPFPIIV AWAIGKLYYE NEQWFGKEP GDLVDYIQG PIILVLLNF VLEFNIIVRL MTKLRASWTS ETIQYRKAVK ATLVLLPLLG IYMLFFVNP GEDDLSQMF IYFNSFLQSF QGFFVSVFYC FFNGEVRSAV RKRWRHQDH HSLRVPMPARA MSIPSPRI SFHSIKQTAA V ggctcgctgc ctgcctatgc cacaggtccc tgagaggtgc cgggcagtcg ctgcggggag A gcgcggggcc ctgcctgtga gggctgaagg ccgcccaggg ttgcgcaagg ctctgggctc tcgaaaggaa gccaaagaaa gaagctgccc aggtgaccag tctgggagt gctctctccc aaggaagctc cgagcgccca ggagccctta ggcggggtct agtgccttt gaacaatctc cagctcttca aggaagtggg ctgcgcgcgc ctctcttgg accctggctg ggatcctttc cccaaacgca ccccgcgat ttttgcgcac cgggagccga accctggctg cgcgcagctg gctgggctca ggcgcgcttc ctcaacgttt cggagccgct gccccagcg aagtcacat tccaaagctcc aggggctttg agagagacga ccccaaggca agcggtttg agagctgctg aggaagccag ggcttgagg agcgagaaga catgtattt cagctgagtc tcagaagggg agaattctct gtcaccacca gaaaagcaac agccccgaaa tgtgattgca actgactagc agagcagagg ccagggagtc actggattga tgatttagaa tatgctaaaa agccagtgc ttatttgggg aattcagggg ctttctggg cccaagacag tgacctgcag atgaggactc tgaacacctc tgccatggac gggactgggc tggtggtgga gagggacttc tctgttcgta tctcactgc ctgtttctca tgcgtgcica tccgtgccac gctcctggg aacacgctgg tctgtgctgc cgttatcagg ttccgacacc tgcggtccaa ggtgaccaac tctttgtca tctcctgggc tgtgtcagat ctcttgggtg cagtcctgg catgcctgg aaggcagtgg ctgagattgc tggcttctgg ccttttgggt ctctctgtaa ctctgggtg gcctttgaca tcatgtgctc cactgcctc atcctcaacc tctgtgtgat cagcgtggac aggtattggg ctatctccag cctttccgg tatgagagaa agatgacccc caaggcagcc ttcacctga tcagtgtggc atggacctg tctgtactca tctccttcat cccagtgcag ctacgtggc acaaggcaaa acccaaacg cctctgatg gaaatgccac tccctggct gagaccatag acatccctgt ggccatcctg atgtcacct acaccagat ctacaggatt gctcagaaac aaatacggcg cattgcggc ttggagaggg cagcagtcga cccaagaaat tgccagacca ccacaggtaa tggaaagcct gtcgaatgt ctcaaccgga agttctttt aagatgtcct tcaaaagaga aactaaagtc ctgaagactc tgcggtgat catgggtgtg tttgtgtgct gttggctacc tttcttcat ttgaactgca ttttgcctt ctgtgggtct ggggagacgc agcccttctg cattgattcc aacaccttg acgtgtttgt gtggtttggg tgggctaatt catccttgaa ccccatcatt tatgccttta atgctgatt tcggaaggca ttttcaacc tcttaggatg ctacagactt tgccctgcga cgaataatgc catagagacg gtgagtatca ataacaatgg ggcgcgatg ttttccagc atcatagacc acgaggtcc atctccaaag agtgcattct ggtttacctg atccacatg ctgtgggctc ctctgaggac ctgaaaaagg aggagggcagc tggcatcgcc agaccttgg agaagctgtc cccagcccta tcggtcatat tggactatga cactgacgtc tctctggaga agatccaacc catcacaaa aacggtcagc acccaacctg aactcgcaga tgaatcctgc cacacatgct catcccaaaa gctagaggag attgctctgg ggtttgctat taagaaacta aggtacgggt agactctgag gtgtcaggag agccctctgc tgctttccaa cacacaatta actcctttc caaatcatt ccagtgtatt </p>	Homo sapiens
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98	1240	Dopamine Receptor D1	NP_000785.1	<p> ttcgtgtgttg ttcatagtca atcaaacagg gacactacaa acatggggag ccataaggga catgtctttg gcttcagaat tgthtttaga aattattct tatcttagga ttaccacaa agggcaaga atcaacagt aacagcttca cttaaaatca aattttctg ggaagaaat gagatgggtt gagttgtctg tatacaaca ggtgctaaca ctgttccag caaagtcttc agattgtaa gtaggtgca tgcctcata aattattct aaacattaa ttgaggtcta cagtaggagt gaaaaattt ttccagaat tgagagatgt ttgttgata ttggttctat ttatttatg tataatgga ttttttaat ttatgatata taaatatat attatcata tttatagga taaattaatg agttttatcc aagaccttac aaccacattt ctggccattt aactagcact ttataagca atgaagcaaa cacacagact ctgtgagatt ctaaatgttc atgtgtaact tctaga MRTLNTSAMD GTGLVVERDF SVRLTACFL SLILSTLIG NTLVCAAVIR FRHLRSKVTN P FFVISLAVSD LLVAVLMPW KAVAEIAGFW PFGSFCNIWV AFDIMCSTAS ILNLCVISVD RYWAISSPFR YERKMTPKAA FILISVAWTL SVLISFIPVQ LSWHKAKPTS PSDGNATSLA ETIDNCDSSL SRTYAISVV ISEYIPVAIM IVTYTRIYRI AQQIRIRIAA LERAAVHAKN CQTTNGNGKP VECSQPESSE KMSFKRETKV LKTLSPVIMGV FVCCWLPFFI LNCILPFCGS GETQPFICIDS NTFDFVWFG WANSSLNPII YAFNADFRKA FSTLLGCYRL CPATNNAIET VSINNNGAAM FSSHHERPGS ISKECNLVYL IPHAVGSSSED LKKEEAAGIA RPLEKLSPAL SVILDYDIDV SLEKIQITQ NGQHPT </p>	Homo sapiens
99	1241	Dopamine Receptor D5	NM_000798	<p> ggacagaggc agggctgaag ttgggacgc gacagaccg cccctgcagt ccagcccgaa A atgtgtccgc caggagcaaa cggcaccgcg taccggggc agttgcgtct ataccagcag ctggcgacgg ggaacgcgt gggggcctcg ggggggcac gcacctggg gccctcacag gtggtcacgg cctgcctgct gacctactc atcatctgga cctgtctgg caacgtgctg gtgtgcgcag ccatcgtgcg gagccgccac ctgtgcgcga acatgaccaa cgtcttcac gtgtctctgg ccgtgtcaga cttttctg gcgtgcgtg tcatgccct gaaggcagtc gccgaggtgg ccggttactg gccctttgga gcgttctgc acgtctgggt gcccttcgac atcatgtgct ccaactgcctc catcctgaac ctgtgcgtca tcagcgtgga ccgctactgg gccatctcca ggccttccg ctacaagcgc agatgactc agcgcattggc cttggtcatg gtcggcctgg catggacct gtccatctc atctcctca ttcgggtcca gctcaactgg cacagggacc agcgggcctc ttggggcggg ctggacctg caaacaacct ggccaactgg acgcccggg aggaggact ttgggagccc gacgtgaatg cagagaactg tgactccagc ctgaatcgaa cctacgccat ctcttctcgt ctcatcagct tctacatccc cgttgccatc atgategtga cctacacggc catctaccg atgccccagg tgcagatccc caggatttcc tccctggaga ggccgcgaga gcacgcgcag agctgccga gcagcgcagc ctgctgcgcc gacaccagcc tgcgcgttc catcaagaag gagaccaagg ttctcaagac cctgtcgggtg atcatggggg tcttcgtgtg ttgctggctg cctctcttca tcttaactg catggtccct ttctgcagt gacacctga agccctccg gccggcttcc cctgcgtcag tgagaccacc ttgcagctct tctgtgtgtt cggctgggct aactcctcac tcaacccgt catctatgcc ttcaacgcc actttcagaa ggtgtttgcc cagctgctgg ggtgcagcca cttctgtctc cgcacgccg tggagacggt gaacatcagc aatgagctca tctcctacaa ccaagacatc gtcttcaca aggaatcgc agctgcctac atccacatga tgcccaacgc cgttaccccc ggcaaccggg aggtggacaa cgacgaggag gagggtctct tgcagtcgat gttccagatc </p>	Homo sapiens

100	1241	Dopamine Receptor D5	NP_000789.1	<p> tatcacagct cccagatgg tgaccctggt gctgagctg tctgggagct ggactgcgag gggagattt ctttagacaa aataacacct ttcaccccg atggattcca ttaaaactga ttaagaaaacc cctcatgga tctgcataac cgcacagaca ctgacaagca cgcacacaca cgcaatata tgcctttcca gtgctgtcc cttttcatg tgtttctgt tagtagctcg tgtgcttaga aacctcacc cattgattgg tagttcgaag aattggcaga atcagtttga ataaactcag tcaaatgtac ccagcctacc agagatggac caacgacct atgagagaag agagtatgt gctgggtcct taaaaaaa aatgatactt ggtcctaaa aatatgctc tcccctcct ttttaacaa atggctgtt cagtcactg tttgtgttg aattgattt taaacagcag gttgtgtg tgtagcagtg tgggtggga gcacagttt cctgggtctg gattccctg gctttgtg tatgtcattt cttctctctg tctgggtggg ggcctcttta ccatagctta agaagtatcc ctgatttatt ctggtgtcta ataaacacag attatttga aaaaaaaa aaaaaaaa aa </p>	Homo sapiens
101	1242	Dopamine Receptor D2	NM_000795	<p> MLPPGNGTA YPGQFALYQQ LAQNAVGGS AGAPPLGPSQ VVTACLTL ILIWTLLGNVL P VCAAIVRSRH LRANMTNVEI VSLAVSDLEF ALLVMPKRAV AEVAGYWPFG AFCDVWVAED IMCSTASILN LCVISVDRYW AISRPFRYKR KMTQRMALVM VGLAWTSLIL ISFIPVQLNW HRDQAASWGG LDLPNNLANW TPWEEDFWEP DVNAENCDS LNRTYAISS LISFYIPVAI MIVTYTRIYR IAQVQIRIRIS SLERAAEHAQ SCRSSAACAP DTSLRASIKK ETKVLKTLV IMGVFVCCWL PFFILNCWVP FCSGHPEGPP AGFPCVSETT FDFVFWFGWA NSSLNPVIYA FNADFQKVEA QLLGCSHFCS RTPVETVNIS NELISYNQDI VFHKEIAAY IHMPNAVTP GNREVDNDEE EGFPRMFIQI YQTSPPDGDPV AESVWELDCE GEISLDKITP FTPNGFH agagcctggc caccagtggt ctccaccgct ctgattggtc cactgaatct gtcctgggtat A gatgatgatc tggagagga gaactggagc cggcccttca acgggtcaga cgggaaggcg gacagacccc actacaata ctatgccaca ctgtcaccct tgtcatcgc tgtcatcgtc ttcggcaacg tctgtgtgtg catggctgtg tcccgcgaga agcgctgca gaccaccacc aactaccta tctgtcagct cgcagtgcc gacctcctcg tcgccacact ggtcatgccc tgggttgtct acctggaggt ggtagtgtag tggaaattca gcaggattca ctgtgacatc ttcgtcactc tggacgtcat gatgtgcacg gcgagcacc tgaacttgtg tgcctacgac atcgacaggt acacagctgt gccatgccc atgctgtaca atacgcgcta cagtcctcaag cgccgggtca ccgtcatgat ctccatgctc tgggtcctgt ccttcaccat ctcccgcca ctccctctcg gactcaataa cgcagaccag aacgagtga tcattgcca cccggccttc gtggtctact cctccatcgt ctccctctac tgcctcttca tttgtaccct gctggtctac atcaagatct acattgtcct ccgcagacgc cgcaagcgag tcaacaccaa acgcagcagc cgagcttca gggccacctt gaggtctcca ctaaaggga actgtactca ccccgaggac atgaaactct gcacgttat catgaagtct ataggaggt tcccagtga caggcgagga gtggagggtg cccggcgagc ccagagctg gagatggaga tgcctctcag caccagccca cccgagagga cccggtacag ccccatccca accagccacc accagtgac tctccccgac ccgtcccaac atggtctcca cagcactccc gacagcccc ccaaacaga gaagaatggg catgccaaag accaccccaa gattgccaag atcttttga tccagacctt gcccaatggc aaaacccgga cctccctcaa gacctagc cgtagggaag tctccagca gaaggagaag aaagccactc agatgtctgc cattgtctc ggcgtgttca tcatctgtg gctgccttc ttcatacac acatcctgaa catacactgt gactgcaaca tcccgcctgt cctgtacagc </p>	Homo sapiens

102	1242	Dopamine Receptor D2	NP_000786.1	<p> ggcttcacgt ggctggggcta tgtaacacagc gccgtgaacc ccatcatcta caccaccttc aacattgagt tccgaaggc ctctctgaag atctccact gctgactctg ctgctgccc gcacagcagc ctgcttccca cctccctgcc caggccggcc agctcaacc ttgcgaaccg tgagcaggaa ggctggggtg gatcgccctc ctctcttag ccccgccagg cctgcagtg ttcgcttggc tccatgctcc tcaactgccg cacacctca cctgcccagg gcagtgctag tgagctgggc atggtaccag cctgggggct ggcccagct caggggcagc tcatagagtc ccccctcca cctccagtc cctatcctt ggccaaaag atgcagccgc ctctctgac cttctctgg ggctctaggg ttgctggagc ctgagtcagg gccagagcc tgagttttct ctttgtggg ctggcggtg agcaggcgtt ggggagagat ggacagtca caccctgcaa ggccacaggg aggaagcaa gctctctgc cgaggagcca ggcaactca gtcctgggag acccatgtaa ataccagact gcagggtgga cccgagagat tcccaagcca aaaccttag ctccctccg cacccgatg tggacctcta ctctcaggc tagtccggac ccacctcacc ccgttacagc tcccaagtg gttccacat gctctgaga gaggagccct catcttgaa ggccacaggg ggtctatggg gagaggaact ccttgcccta gccaccctg ctgctctctg acggccctgc aatgtatccc ttctcacagc acatgctggc cagcctgggg cctggcaggg aggtcaggcc ctggaactct atctgggctt gggctagga catcagaggt tcttgaggg actgctctg ccacactctg acgcaaaacc actttctctt tctattctt ctggccttc ctctctctg ttctctctc ctctccactg ctctgctta gaggagccca cggctaagag gctgctgaaa accatctggc ctggcctggc cctgccccta ggaaggaggg gaagctgcag cttgggagag cccctgggc ctgactctg taacataact atccgatgca ccaaaactaat aaaacttga cgagtcaact tc </p>	Homo sapiens
103	1243	Dopamine Receptor D3	NM_000796	<p> taagaaaaa ggatacattc gaaagcagct atgaacacatg cactaaggtc taataggaa gctggaaaaa cagcactcaa gtaattcac cttagaggca aaaaagggtg attctcttct gttcatttca tagtttctga gtcctgagaa aggcgaagt ttgcttgctt gggtagtgtct gctgtcagta aatggctgca ggagccgaag tggtaaacct ctggtctcc agaaatcaga agaaaattt aggaagccc ttggcatcac gcacctccct ctgggctatg gcactctga gtcagctgag tagccacctg aactacact gtggggcaga gaactccaca ggtgccagcc agggccgccc acatgcctac tatgcccct ctatcctgc gctatcctg gccatcgct tcggcaatgg cctggtgtgc atggctgtgc tgaaggagcg gcccctgcag actaccacca actacttagt agtgagcctg gctgtggcag acttgctggt gcccacctg gtgatgccct gggtgtgata cctggaggtg acaggtggag tctggaaatt cagccgcat ttgctgtgatg ttttgtcac cctggatgct atgatgtgta cagccagcat ccttaattct ttgtccatca gcatagacag gtacactgca gtggtcatgc ccgttacta ccagcatggc acgggacaga </p>	Homo sapiens

Homo
sapiens

104 1243 Dopamine Receptor D3 NP_000787.1 MASLSQLSSH LNYTCGAENS TGASQARPHA YVALSYCALI LAIVFGNGLV CMAVLKERAL P
QTTNNILVVS LAVADLIVAT LVMPWVVYLE VTGGVWNFSR ICDDVFVTLT VMCTASILN

gctcctgtcg gcgcgtggcc ctcatgatca cggccgtctg ggtactggcc ttgtgtgtg
cctgcctct tctgtttggc tttaatacca caggggacc cactgtctgc tccatctca
acctgattt tgcattctac tcttcagtgg tgccttcta cctgcccctt ggagtgtg
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ccttcaatat cgagttccgg aaagccttcc tcaagatcct gtcttctga gggagc

Homo
sapiens

105 1244 Dopamine Receptor D4 NM_000797

atggggaacc gcagcacgc ggacgcgag ggcctgctcg ctggggcggc gccggccggc A
ggggcatctg cgggggcatc tgccgggctg gctgggcagg gctgggctgg gctgggtggg
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106	1244	Dopamine Receptor D4	NP_000788.1	ccgtgctgct cctgcccccc ggggctggtc agcgccgtca cctggctggg ctacgtcaac agcgccctca acccgctcat ctacactgtc ttcaacgcg agttccgcaa cgtcttccgc aagccctgc gtgctgtgtg ctgagccggg caccgccgga cgcgcccg cctgatggcc aggcctcagg gaccaaggag atggggaggg cgcttttgta cgtaataaa acaattctc tccc	GSLVCSVA P	Homo sapiens
				TERALQTPTN SFIVLAAAD LLLALLVPL FVYSEVQGA WLLSPRLCDA LMAMDVMLCT ASIFNLCAIS VDREVAVAVP LRYNRQGSR RQLLLIGATW LLSAAVAPV LCGLNDVVRG DPAVCRLEDR DYVYSSVCS FFLPCPLMLL LYWATFRGLQ RWEVARRAKL HGRAPRRPSG PGPPSPTPPA PRLPQDPCGP DCAPPAPGLP RGPCGPDPCAP AAPGLPPDPC GPDCAAPPAG LPQDPCGPDG APPAPGLPRG PCGPDCAAPP PGLPQDPCGP DCAPPAPGLP PDCGSNCAP PDAVRAAALP PQTTPQTRRR RRAKITGRER KAMRVLPPVV GAFLLCWTFP FVWHITQALC PACSVPRPLV SAVTWLGYVN SALNPVIYTV FNAEFRNVER KALRACC		
107	1267	Opioid Receptor, delta 1 (OPRD1)	NM_000911	ccgaggagcc tgcgtgctc ctggctcaca gcgctccggg cgaggagagc gggcgagccg A gggggctggg ccggtgsggg cggcgagga ggcgagagc agcgggcgcg ccggggcgcg gcacggcgcg ggtcggggcc ggctctgcg ttgcgcctc cctcgctcg gatecccgcg ccaggcagc cggtagagag gacggcgcg gacggcgga gccatggaac cgccccctc cgccggcgcc gagctgcagc ccccgctctt cgccaaagcc tcggagcct accctagcgc ctcccagc gctggcgcca atgcgtcggg gcggcagga ccggggagcg cctgctccct cgccctggga atgcgccatca cgcgcgtgta tcgcccgtg tgcgcgtg ggctgctggg caactgctt gtcattgtcg gcctgctcg gtacactaag atgaagacgg ccaccaacat ctacatctc aacctggcct tagccgatgc gctggccacc agcacgctgc cttccagag tgccaaagta ctgatggaga cgtggccctt cggcgagctg ctctgcaagg ctgtgctctc catgactac tacaatatgt tcaccagcat ctccagctc accatgatga gtgttgaccg ctacatcgt gtctgccacc ctgtcaaggc cctggacttc cgcacgcctg ccaaggccaa gctgatcaac atctgtatct gggtcctggc ctcaggcgtt ggcgtgccc tcatggtcat ggctgtgacc cgtcccgggg acggtgcagt ggtgtgcagt ctcagttcc ccagcccgag ctggtactgg gacacgggtga ccaagatctg cgtgttctc ttccgcttcg tggtgcccat cctcatcacc accgtgtgct atggcctcat gctgctgccc ctgcgagtg tgccctgct gtcgggctcc aaggagaagg accgagcct gcggcgcatc acgcgcatgg tgctggtggt tgtggggccc ttctgtgtgt gttggggccc catccatc ttctcatcg tctggagcgt ggtggacatc gaccggcgcg acccgctggt ggtggctgcy ctgacacctg gcatcgcgct gggctacgcc aatagcagcc tcaacccccg ctctacgct ttcctcgag agaaactcaa gcctgcttc cgcagctctt gccgcaaggc gtcgagccgc ccagacccca gcagcttcag ccggcccgcc gaagccacgg gaccagacca tccggcccc agaccccc ccgatggtcc cgcggtggc cgtgcgcctt gaccagacca tccggcccc agaccccc ccctagtgt accggaggc cacatgagtc ccagtggag gcgcgagcca tgatgtggag tggggccagt agatagtgct gagggttttg ggaccgccag atggggcctc tgtttcgag acgggaccgg gccctagat gggcatgggg tgggctctg gtttggggcg aggcagagga cagatcaatg gcgagtgcc tctggtctg gtcgccctt ccacggctct aggtggggcg ggaaagccag tgactccagg agaggagcg gacctgtggc tctacaactg agtccttaa		Homo sapiens

108	1267	Opioid Receptor, delta 1 (OPRD1)	NP_000902.1	gagggcatct ccaggaaggc ggggcttcaa ccttgagaca gcttcgggtt ctaacttgga gccggacttt cggagtggg gggccgggg ccc AVGLIGNVLV MFGIVRYTKM KTATNIYFN LALADALATS TLPFQSAKYL METWPFSELL CKAVLSIDYY NMFTSIFTLT MMSVDRIYAV CHPVKALDER TPAKAKLINI CIWVLASGVG VPIMVMATR PRDGAIVCML QFPSPSWYWD TVTKICVFLF AFVVPILIT VCYGLMLRL RSVRLLSGSK EKDRSLRRIT RMVLVVVGA FVVCWAPIHF VIVWTLVDID RDPLVVAAL HLCIALGYAN SSLNPVLYAF LDENFKRCFR QLCRKPCGRP DPSSFSPRE ATARERTAC TPSDPGGGGR AA	Homo sapiens
109	1424	Duffy Antigen	NM_002036	gggctgaac caaacgggtgc catggggaac tgtctgaca gggtagtat ggggccaggc A cccagagtcc cttatcccta tgcccctcat ttcccctgct gtttgcctt cagtctttat atctcttctt ttctctctc atctttctc cctcccgct ttttctctt tccttcaag tcttttctt tctctcttc ctatgtagc cctctagtc cctcttggtt cctcccttt gccttgagt cagttccatc ctggtctctt ggtgccttc cttctgact tgcactgtc ctccagccc agctgccg ctctcccg gactgttctt gctccgctc ttccaggtcc ctgcttgtc ctcttccat gtcgcactg catctgact ctgcagagac cttgttctc cacccgact tctctctgt cctccctcc cactgcccc tcaattccca ggagactctt ccggtgtaac tctgatggcc tctctgggt atgtctcca ggccgagctc tccccctcaa ctgagaactc aagtcagctg gacttgaag atgtatgaa ttcttctat ggtgtgaatg atctctccc agatggagac tatgatgcca acctgagc agctgcccc tgcactcct gtaactgct ggatgactct gactgacct tcttcatct caccagtgtc ctgggtatcc tagctagcag cactgtctc ttcatgttt tcagacctt cttccgctgg cagctctgcc ctggtggcc tgctctggca cagctggctg tgggcagtc cctctcagc attgtgtgc ccgtctggc ccagggcta ggtagactc gcagctctgc cctgttagc ctgggtact gtgtctgta tggctcagc tttgccag ctttgcctt aggtgacct gctccctgg gccacagact ggtgcaggc caggtcccg acctcactt ggggtcact gtgggaattt tctgcacct gatatacag acagtgcctg tcacctggc cagtggtgtc tctggtggac gtcttgccat ctttgtctg ttgccattg gtttgtttg agccaagggg ctgaagaagg cattgggtat ggggccaggc cctgggatg atatccttg ggcctgggtt atttctggt ggctcatgg ggtggttcta ggaactgatt tctggtgag gtccaagctg ttgctgtgt caacatgtct ggcaccagc gctctggacc tgcgtgctaa cctggcagaa gccctggcaa ttttgactg tgtggctacg cctctgctc tcgcccatt ctgccaccag gccaccgca ccctctgccc ctctctgccc cctccctgaag gatgtgttc tcatctggc accttgga gcaaatccta gttctctcc cactgtcaa cctgaaataa agctacact gcctttgtg NP_002027.1 MASSGYVLQA ELSPSTENS QLDFEDVWNS SYGVNDSFPD GDYDANLEAA APCHSCNLLD P DSALPFILT SVLGILASST VLFMLFRPLF RWQLCPGPV LAQLAVGSAL FSIVPVLP GLGSTRSSAL CSLGYCVWYG SAFAQALLLG CHASLGHRLG AGQVPGLTLG LTVGIWGVAA LLTLPTVLAS GASGGGLCTLI YSTELKALQA THTVACLAF VLLPLGLFGA KGLKKALGMG PGPMNIIWA WFIFWPHGV VLGLDFLVR KLLLSTCLA QQALDLLNL AEAAILHCV ATPLLLALFC HQATRTLPS LPLPEGWSSH LDTLGSKS	Homo sapiens
110	1424	Duffy Antigen	NP_002027.1	gagggcatct ccaggaaggc ggggcttcaa ccttgagaca gcttcgggtt ctaacttgga gccggacttt cggagtggg gggccgggg ccc AVGLIGNVLV MFGIVRYTKM KTATNIYFN LALADALATS TLPFQSAKYL METWPFSELL CKAVLSIDYY NMFTSIFTLT MMSVDRIYAV CHPVKALDER TPAKAKLINI CIWVLASGVG VPIMVMATR PRDGAIVCML QFPSPSWYWD TVTKICVFLF AFVVPILIT VCYGLMLRL RSVRLLSGSK EKDRSLRRIT RMVLVVVGA FVVCWAPIHF VIVWTLVDID RDPLVVAAL HLCIALGYAN SSLNPVLYAF LDENFKRCFR QLCRKPCGRP DPSSFSPRE ATARERTAC TPSDPGGGGR AA	Homo sapiens

111	1451	EBV-Induced Gene 2	NM_004951	ggaattccct gatatacc tggaccacca ccaatggata tacaatggc aaacaatttt A actcgcctt ctgcaactcc tcagggaat gactgtgacc tctatgcaca tcacagcaag gccaggatag taatgcctct gcattacagc ctgctctca tcattgggct cgtgggaaac ttactagcct tggctgctcat tgttcaaac aggaaaaaa tcaactctac caccctctat tcaacaatt tggtagtttc tgataactt ttaccaccg tttgacctac acgaatagcc tactatgcaa tgggctttga ctggagaatc ttagtagcct tgttaggat aactgcgcta gtgttttaca tcaacacata tgcagggtgtg aactttatga cctgcctgag tattgaccgc ttcattgctg tggcgacccc tctacgctac aacaagataa aaaggattga acatgcaaaa ggcgtgtgca tattgtctg gattctagta ttgctcaga cactccact cctcatcaac cctatgtcaa agcaggaggg tgaaggattt acatgcattg agtatccaaa ctttgaagaa actaaatctc ttccctggat tctgctggg gcattgttca taggatagt acttccactt ataatcattc tcactgcta ttctcagatc tgctgcaaac tctcagaac tgcaaaaca aacccactca ctgagaatc tgggtgaac aaaaaggctc tcaacacaat tattcttatt attgtgtgt ttgttctctg ttccacactt accatgttg caattattca acatatgatt aagaagcttc gtttctctaa ttctctggaa ttagcctaaa gacattcgtt ccagatttct ctgcactta cagtatgct gatgaactc aattgctga tggaccttt tatctacttc tttgcagtga aagggtataa gagaaagtt atgaggatgc tgaacggca agtcagtga tcgatttcta gtgctgtgaa gtcagccct gaagaaaatt cacgtgaaat gacagaaacg cagatgatga tacattccaa gtcttcaat ggaagtga atgattgta ttttggtta tagtgacgta aactgtatga caaacttgc aggaactccc ttataaagca aaataattgt tcagcttcca attagtattc ttttatttt tttcatttg gcactttccc atctccaact cggaagtgaag ccaagagaa caacataaag caaacacat aaagcacaat aaaaatgcaa ataaatattt tcatttttat ttgtaaacga atacaccaa aggagggcct cttaataact cccaatgtaa aaagtgtgt tttaataaaa aatttaatta ttatttcttg ccaacaaaatg gctagaaaag actgaataga ttatatattg ccagatgta atactgtaac atactttta ataaacatat ttcttaaatc caaatttctc tcaatgttag atttaattcc ctcaataaca ccaatgtttt gtttgttct gttctgggtc ataaaacttt gtttaaggaa tcttttgaa taaagagcag gatgctgc	Homo sapiens
112	1451	EBV-Induced Gene 2	NP_004942.1	MDIQMANNFT PPSATPQND CDLYAHSTA RIVMPLHYSL VFIIGLVGNL LALWIVQNR P KKINSTIYS TNLVISDILF TTALPRTIAY YAMGFDWRIG DALCRITLV FYINTYAGVN FMTCLSIDRF IAVVHPLRYN KIKRIEHAKG VCIFWILVF AQTLP LLINP MSKQEAERIT CMEYPNFEET KSLPWILLGA CFIGYVLP LI IILICYQC CKLFRTAKQN PLTEKSGVVK KALNTIILII VVFLCFTPY HVAIQHMIK KLRFSNFLEC SQRHSFQISL HFTVCLMNFN CCMDPFIYFF ACKGYKRKVM RMLKRQSVS ISSAVKSAPE ENSREMTETQ NMHSKSSNG K	Homo sapiens
113	1486	Endothelin B Receptor	NM_000115	gagacattcc ggtgggggag tctggccagc ccgagcaacg tggatcctga gagcactccc A aggtaggcat ttgccccggt gggacgcctt gccagagcag tgtgtggcag gccccggtg aggatcaaca cagtggctga acactggga ggaactggtta cttggagtct ggacatctga aacttggtc tgaactgcg cagcgccac cggacgcctt ctggagcagg tagcagcatg cagccgcctc caagtctgt cggacgcgc ctggttctgc tggttcttgc ctgcggcctg tcgcggtatct ggggagagga gagaggcttc ccgcctgaca gggccactcc gcttttgaa	Homo sapiens

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114	1486	Endothelin B NP_000106.1 Receptor	acatggtgct tttctttcat ctgagaggcaa aactgctttt tgagaccgta agaactcttt agctttgtgc gttctgctt aattttata tcttctaagc aaagtgcctt agtagagctt ggatgagat gtgtgtgaaa gtatgtacaa gagaaaaagg aagagagagg aaatgaggtg gggttgagg aaaccatgg ggacagattc ccattcttag cctaacgttc gtcattgctt cgtcacatca atgcaaaaagg tctgtatttt gtccagcaa aacacagtcg aatgttctca gagtgaattt cgaataaat tgggccaag agctttaact cgttcttaa atatgccc attttactt tgttttctt ttaatagctt gggccacatg ttgaaataa gtagtaatg ttgtttctg tcaatatga atgtatggt acagtaaac aaacccaac aatgtggcca gaaagaaga gcaataataa ttaattcaca caccatagg attctatta taaatcacc acaaactgt tctttaatt catcccaatc acttttcag aggcctgtta tcatagaagt cattttagac tctcaatttt aaattaattt tgaatcacta atattttcac agtttattaa tatatttaatt tctatttaa attttagatt attttatta ccatgtactg aattttaca tctgtatacc cttctcttct ccatgtcagt atcatgttct ctaattatct tgccaaattt tgaaactaca cacaaaaagc atacttgcat tatttataat aaaattgcat tcaagtgcctt tttaaaaaa atgtttgatt caaaacttta acatactgat aagtaagaaa caattataat ttctttacat actcaaaacc aagatagaaa aagtgctat cgttcaactt caaaacatgt ttcctagat taaggacttt aatatagcaa cagacaaaat tattgttaac atgtagtga cagctcaaaa gatttataa agattttaac ctattttct cttattatc cactgcta gtgtagtat gtcaaacac cttttagat tgatagctta catatggcca aaggaataca gtttatagca aaacatgggt atgtgttagc taactttata aaagtataat ataacaatgt aaaaaattat atactggga gattttttg ttgcctaaa gtgctatag ttactgattt tttattatgt aagcaaaacc aataaaaatt taagttttt taacaactac cttattttt actgtacaga cactaaatca ttaataacta attgattgtt taaaagaaat ataaatgga caagtggaca ttatttatgt taaatataca attatcaagc aagtatgaag ttattcaatt aaaaatgcac atttctgtc tctggg	Homo sapiens
115	1488	Endothelin A NM_001957 Receptor	SLARSLAPAE VPKGDRFAGS PPRTISSPPC QGPIEIKETF KYINTVVSCL VFVLGIIIGNS TLRLIIYKNK CMRNGPNLII ASLALGDLH IVIDIPINVY KLLAEDWPFQ AEMCKLVFFI QKASVGITVL SLALSIDRY RAVASWSRIK GIGVPKWTAV EIVLIWVSU VLAVPEAIGF DIITMDYKGS YLRICLLHPV QKTAFMQFYK TAKDWLFSF YFCLPLAITA FFYTLMTCEM LRKKSQMIOIA LNDHLKQRRE VAKTVFCLVL VFALCWLPPLH LSRILKLTLY NQNDPNRCEL LSFLVLVDYI GINMASLNSC INPIALYLV KRFKNCFKSC LCCWCQSFEK QKSLEEKQSC LKFKANDHGY DNFRRSNKYS SS gaattcgagg cgcctcttg cgggtccaga gtggagtga aggtctggag ctttggagg A agacggggag gacagactgg aggcgtgttc ctccggagtt tctttttctg tgcagagcctt cgcgcgagg tacagactgc ccgctgggtc gacgattgt gaggcggtt ggagaggctt catccatccc acccggtcgt cgcgggggat tgggttccca gcgacacctc cccgggagaa gcagtgcaca ggaagtctt gaaagccggg tgaagctgac agcgaagcc gccgcccgc cgagagccgg gacacggcc accctccgag ccccgagctt tgcctttctc cggcttctc tggcccaggc gccgagcga cccggcagct gctgcgcac gccgagctcc acggtgaaa aaaaagtga ggtgtaaaag cagcacaagt gcaataagag atatttctc aaatttgctt	Homo sapiens

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cttctctctt aattcactcc cacaccaag acacccaag agaaatgct ttccaaacc gcaaggtaga
ctggtttatc caccacaac atctacgaat cgtacttctt taattgatct aatttacata
ttctgcgtgt tgtattcagc actaaaaaat ggtgggagct gggggagaat gaagactgtt
aaatgaacc agaaggatat ttactacttt tgcatgaaa tagagcttc aagtacatgg
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agattaacga caagattttc tactttttt aagtatttt ttgtccttca gccaaacaca
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aatagtattc aggtgagcaa ttagattagt attttccacg tcaatttta tttttttaa
acacaaaattc taaagctaca acaataacta caggccctta agcacagtc tgatgacaca
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atggtgtttt attacaaggg accttgaaca ttttttggat gttaaaattca aaagtaatgc
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aaaaatcaatg tcaagtacca aaatgttaat gtatgtgtca tttaaactcg cctgagactt
tcagtgact gtatatagaa gtctaaaaa cacctaagag aaaaagatcg aatttttcag
atgattcga aattttcatt caggtatttg taatagtac atatatagt atatacat
cacctcctat tctcttaatt tttgttaaaa tgttaactgg cagtaagtct tttttgatca
ttcccttttc catatagaa acataatttt gaatgggcca gatgagtta tcatgtcagt

116	1488	Endothelin A Receptor	NP_001948.1	gaaaaataat taccacaaa tgccaccagt aacttaacga ttcttcaactt ctgtggggttt tcagtatgaa cctaactccc caccacca cctccctccc acattgtcac catttcaag ggccacagt gacttttgtt gggcattttc ccagatgttt acagactgtg agtacagcag aaaatctttt actagtgtgt gtgtgtatat atataacaa ttgtaaattt cttttagccc atctttctag actgtctctg tggaatatat ttgtgtgtgt gatatatgca tgtgtgtgat ggtatgtatg gattaatct aatctaataa ttgtgccccg cagttgtgcc aaagtgcata gtctgagcta aaatctaggt gattgttcat catgacaacc tgcctcagtc cattttaacc ttagcaaac ttctgcatc ataaactttg taactatgtt accattacaa atgggatata agaggcagcg tgaagcaga tgagctgtgg actagaata tagggttttg tttgggttgtt tggttgata aagcagtatt tgggtgcata ttgtttctg tgcaggagca aaagtcatta cactttgaag tattatattg ttcttatcct caattcaatg tggtagatga attgccaggt tgtctgatat ttctttcaga ctccgccaga cagattgtctg ataataaatt agttaagata attgtttggg ccataattta ggacaggtaa aataacatca ggttccagtt gcttgaattg caaggctaag aagtactgcc cttttgtgtg ttagcagtc aatctattat tccactggcg catcatatgc agtataatat gcctataata taagccatag gttcacacca ttttgtttag acaattgtct tttttcaag atgctttgtt tctttcatat gaaaaaaatg cattttataa attcagaaag tcatagattt ctgaaggcgt caacgtgcac tttattatg gactggttaag taactgttgt ttactagcag gaatatctcc aatttctacc tttactacat cttttcaaca agtaactttg tagaaatgag ccagaagcca aggccctgag ttggcagttg ccataaagt taaaataaaa gtttacagaa acctt	Homo sapiens
117	1598	Calcium-Sensing Receptor (CASR)	NM_000388	caacaggcac ctggctgcag ccaggaagga ccgcacgccc ttctgcgcag gagagtggaa A ggaggagct gtttgccagc accgaggtct tgcggcacag gcaacgcttg acctgagctt tgcagaatga aaggcatcac agggagcctc tgcagtatgt ggttccaaa gactcaagga ccaccacat tacaagtctg gattgagga ggagaaatg gagattcaaa caccacgtct tctattattt tattaatcaa tctgtagaca tgtgtcccca ctgcaggag tgaactgctc caaggagaa acttctgga cctccaaaac tctagctgt ctcacccctt gccctggaga gacggcagaa ccatggcatt ttatagctgc tctgggtcc ttctggcact cacttggcac acctctgctt acgggccaga ccagcagcc caaagaagg gggacattat ccttgggggg ctctttccta ttcatttttg agtagcagct aaagatcaag atctcaaatc aagccgggg tctgtggaat gtatcaggtta taatttccgt ggtttcgtt ggttacaggc tatgatat gccatagagg agataaacag cagccagcc ctcttccca acttgacgt gggatcacagg atatttgaca cttgcaacac cgtttctaag gccttggag ccacctgag ttttgtgtct caaaacaaaa ttgattcttt gaacttgat gatttctgca actgtcaga gcacattccc	Homo sapiens

tctacgattg ctgtgtgtgg agcaactggc tcaggcgtct ccacggcagt ggcaaatctg
ctgggctct tctacattcc ccaggtcagt tatgcctctt ccagcagact cctcagcaac
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gtctgatatc cttcattcc agcctatgcc agcctgtgtg gctgcatctt cttgcccga
gagtgattg ccattcctgg agccagcttt ggctgtctgg cgtgcatctt cttcaacaag
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aagcgtcca gcagccttgg aggtccacg ggatccacc cctcctctc catcagcag
aagagcaaca gcgaagacc attcccacag cccgagaggc agaagcagca gcagccgctg
gccctaacc agcaagagca gcagcagcag ccctgacc tcccacagca gcaacgatct

118	1598	Calcium- Sensing Receptor (CASR)	NP_000379.1	<p>MAFYSCCWVL LALTWHTSAY GPDQRAQKHG DIILGGLFPI HFGVAAKDQD LKSRPESVEC P</p> <p>IRYNFRGFRW LQAMIFAIEE INSSPALLPN LTLGYRIEFT CNTVSKALEA TLSFVAQNKI</p> <p>DSLNLDFECN CSEHIPSTIA VVGATGSGVS TAVANLLGLF YIPQVSYASS SLLSNKNQF</p> <p>KSELRITPND EQHATAMADI IEYFRWNWVG TIAADDDYGR PGIEKEREAA EERDIDICDFS</p> <p>ELISQSDDEE EIQHVVEVIQ NSTAKVIVVF SSGPDLEPLI KEIVRRNITG KIWLASEAWA</p> <p>SSSLIAMPQY FHVVGTTIGF ALKAGQIPGF REFLLKKVHPR KSVHNGFAKE FWEETFNCHL</p> <p>QEGAKGPLPV DTFLRGHEES GDRFSNSSTA FRPLCTGDEN ISSVETPYID YTHLRISYNV</p> <p>YLAVYSIAHA LQDIYTCPLG RGLFTNGSCA DIKKVEAWQV LKHLRLHNET NMGGEQVTFD</p> <p>ECGDLVGNYS IINWHLSPED GSIVFKEVG YNYVAKKGER LFINEEKILW SGFSREVFPFS</p> <p>NCSRDLCLAGT RKGIIIEGPT CCFECVECPD GEYSADKEDS ANCKCPDDFW SNENHTSCIA</p> <p>KEIEFLSWTE PFGIALTLFA VLGIFLTAFF LGVFIKFRNT PIVKATNREL SYLLLFSLLC</p> <p>CFSSSLFFIG EPQDWTCLRL QPAFGISEVL CISCILVKTN RVLLVFEAKI PTFHRKWWG</p> <p>LNQLFLVEL CTFMQIVICV IWLYTAPPS YRNOLEDEI IFITCHEGSL MALGFLIGYT</p> <p>CLLAAICFFF AFKSRKLLEN FNEAKFITFS MLIFFIIVWIS FIPAYASTYG KFSVAVEVIA</p> <p>ILAA5FGLLA CIFFNKIYII LFKPSRNTIE EVRCSTAHA FKVAARATLR RSNVSRKRSS</p> <p>SLGSTGSTP SSSISSKSNS EDPPQPERQ KQQQLALTQ QEQQQQLTL PQQRSQQQP</p> <p>RCKQKVIIFS GTVTFSLSD EPQKNAMAHG NSTHONSLEA QKSSDTLTRH QPLPLQCGE</p> <p>TDLDLTVQET GLQGPVGGDQ RPEVEDPEEL SPALVSSSQ SFVISGGST VTENVVNS</p>	Homo sapiens
119	1676	Formyl Peptide Receptor- Like Receptor	NM_001462	<p>ggcacgagga acaacctatt tgcaaatgtg gcgcaaacat tcctgcctga caggaccatg A</p> <p>gacacaggtt gttagagatag agatggctct ggctgtgcat tcagcagatt ctgtagatag</p> <p>aattaaagg acttgatagg gattgtggtg agagaaagt agagaaaga taagtcttag</p> <p>tttggaagt ttaacaactg aatgtttaaa ctcaaataga cacaaaatat tggaagagt</p> <p>gcaggtttg gaggatgaga caatcaactg tttggttag ccacgttag ttgaaaagt</p> <p>ctacgggac ccgtggggag aggttatatc agactggag accagagaga ggccaaggct</p> <p>gatagtttag atgaaaagag agcatgaggt tttaaagccct gagactggat aatatcacct</p> <p>atagaaaagac tatatagaga taagagaggt gggaacaag taaaagctgc gggacactcc</p> <p>taaatattaga gtcaaatatta gagcagaaaa tactagcaa ggggactgaa aagcgtggtg</p> <p>caattgagct tcaaatgcaa gtgaaagtgt gttgtgtgta catttatcat ctcatggcac</p> <p>aggaaaaacg tgatttaagg agaaggaagc gatccaatgg gaagaagaga tccaatggat</p> <p>cctctatcac gaagatatgt agataagaac caatatggat ttgcacccac tgcatttgca</p> <p>gccttgaggt cataagcatc ctcaggaaaa tgcaccaggt gctgctggca agatggaaac</p>	Homo sapiens

120	1676	Formyl Peptide Receptor- Like Receptor	NP_001453.1	caacttctcc actcctctga atgaatatga agaagtgtcc tatgagtctg ctggctacac tggtctcgg atcctcccat tgggtgtgct tgggtcaacc tttgtcctcg gggctcctggg caatgggctt gtgattggg tggctggatt ccgagtgaca cgcacagtca ccaccatctg ttacctgaac ctggccctgg ctgacttttc tttcacggcc acattaccat tctcatgtg ctccatggcc atgggagaaa aatggccttt tggctgggtc ctgtgtaagt taattcacat cgtgtggac atcaactct ttggaagtgt ctctctgatt gtttctattg cactggacog ctgcatgtgt gtcctgcac cagtctggc ccagaaccac ggcactgtga gtctggccat gaaggatgc gtccgacott ggattcttgc tctagtcctt acctggccag ttttctctct tttgactaca gtaactattc caaatgggga cacatactgt acttcaact ttgcactcctg gggtggcacc cctgagagaga ggcgaagggt ggcattacc atgctgacag ccagagggat tatccggttt gtcattggct ttagcttggc gatgtccatt gttgccatct gctatgggct cattgcagcc aagatccaca aaaggggcat gattaaatcc agcgtccct tacgggtcct cactgctgtg gtgcttctt tcttcactg ttggtttccc tttcaactgg ttgcccttct ggcacctgtc tggctcaag agatgttgt ctatggcaag tacaaaaatca ttgacatcct ggttaaccca acgagctccc tggccttctt caacagctgc ctcaacccca tgccttaact ctttgtggc caagacttcc gagagagact gatccactcc ctgcccacca gctcggagag ggccctgtct gaggactcag ccccaactaa tgacacggct gccaatcttg cttcacctcc tgcagagact gattacagg caatgtgagg atgggtcag gatatatttg agttctgttc atcctacct aatgccagt ccagcttcat ctacccttga gtcataatga ggcattcaag gatcacagc tcaagtattt attcaggaaa aatgcttttg tgcctctgat ttggggctaa gaaatagaca gtcaggctac taaaatatta caagaagaga aagaccagtg gggatttgta ataccctggg taaagtggag ttgggaaata ttggtttttt ttgttttttg acttctgctt agacttagat gagatagcg ataataagg gaagacttta aagtataaag taaaatgttt gctgtaggt ttttatagct attaaaaaaa atcagattat ggaagtcttc tctattttt agtttgctaa gatttttctg tttcttttct ttaacatcat agtggacttt gcattttatc aaatgcattt tctacatgta ttaagatggt catattattc tcttctttt atgtaaatca ttataataa ttttcattaa gttctgaatg ttaaaactact cttgaattcc tggaaataaac cacacttagt cctgatgtac tttaaatatt tatatctcac aggaattggg tagaatttct gtgtttatgt ttataactg ttatttcaat ttttctacta tcttgctaa gttttcatag aaaaaagga acaagagaga acttgtaatg gtctctgaaa aggaattgag aagtaattcc tctgattctg ttttctggtg ttatatctt attaaatatt cagaaaaatt c TICYNLALA DFSFATLPE LIVSMAMGEK WPFGWFLCKL IHIVVDINLE GSVFLIGFIA LDRCICVLHP VMAQNHRTVS LAMKVIVGPW ILALVLTLPV FLFLTIVTIP NGDTYCTFNF ASWGGTPEER LKVAITMLTA RGIIRFVIGF SLPMSIVAIC YGLIAAKIHK KGMIKSSRPL RVLTAVVASF KICWFFPQLV ALLGTWVWKE MLFYGYKII DIIVNPTSSL AFFNSCLNPM LYFVFGQDFR ERLIHSPLTS IERALSEDSA PTNDTAANS SPPAETELQA M	Homo sapiens
121	1681	Follicle Stimulating Hormone Receptor	NM_000145	cgctgagatc tgtggaggtt tttctctgca aatgcagaaa gaaatcaggt ggaatgatgc A ataaattatgg cctgtcctct ggtctctttg ctggcattcc tgagcttggg ctcaggatgt catcatcgga tctgtcactg ctctaacagg gtttttctct gccaagagag caaggtgaca gagattcctt ctgacctccc gaggaatgcc attgaactga ggtttgtcct caccaagctt	Homo sapiens

122	1681	Follicle Stimulating Hormone Receptor	NP_000136.1	<p> cagatcatcc aaaaaggtgc attttcagga ttgggggacc tggagaaaat agagatctct cagaatgatg tcttgagggt gatagaggca gatgtgttct ccaaccttcc caaattacat gaaattagaa ttgaaaaggc caacaacctg ctctacatca cccctgaggc cttccagaac cttccaacc ttcaatatct gtaaatatcc aacacaggtg ttaagcaact tccagatgtt cacaagattc attctctcca aaaggtttta ctgacattcc agataaact aacatccac acaattgaaa gaaattcttt cgtggggctg agctttgaaa gtgtgattct atggtgaat aagaatggga ttcaagaaat acacaactgt gcattcaatg gaaccaact agatgcagt aatctaagcg ataataataa tttagaagaa ttgcctaag atgttttcca cggagcctct ggaccagtc tctagatat ttcaagaaca aggatccatt cctgcctag ctatggctta gaaaatctta agaagctgag gcccaggtcg acttacaact taaaaaagct gcctactctg gaaaagcttg tcgcccctcat ggaagccagc ctacactatc ccagccattg ctgtgccttt gaaaactgga gacggcaaat ctctgagctt catccaattt gcaacaaatc tattttaagg caagaagtty attatatgac tcaggctagg ggtcagagat gctctctggc agaagacaat gagtcagct acagcagag atttgacatg agctacactg agtttgacta tgacttatgc aatgaagtgg ttgacgtgac ctgtctccct aagccagatg cattcaacc atgtgaagat atcatggggt acaacatcct cagagtcctg atatggttta tcagcactct ggcactcact gggaacatca tagtgcctgt gatcctaact accagccaat ataaactcac agtccccagg ttccttatgt gcaacctggc ctttgctgat ctctgcattg gaatcactct gctgctcatt gcatacgttg atatccatac caagagccaa tatcacaact atgccattga ctggcaaac gggcaaggct gtgatgctg tggctttttc actgtctttg ccagtgcagt gtcagtctac actctgacag ctatcacctt gaaagatgg cataccatca ccatgacct gcagctggac tgcaaggtgc agtcccgcca tgcctgaggt gtcaggtgga tgggctggat ttttgctttt gcagctgccc tctttcccat ctttggcctc agcagctaca tgaaggtgag catctgcctg ccatggata ttgacagccc tttgtcacag ctgtatgtca tgtccctct tgtgtcctaat gtcctggcct ttgtgggtcat ctgtggctgc tatatccaca tctacctcac agtgcggaac cccaacatcg tgcctctctc tagtgacacc aggtacgcca agcgcattgc catgctcac ttcactgact tctctgcat ggcacctt tctttctttg ccatttctgc cctccccaag gtgccccctca tcaactgtgc caagcaaat attctgctgg ttctgtttca ccccatcaac tcctgtgcca acccttctc ctatgccatc ttaccacaaa actttgcag agatttcttc attctgtga gcaagtgtg ctgctatgaa atgcaagccc aaatttatg gacagaaact tcatacctg tccacaacac ccatacaagg aatggccact gctcttcagc tcccagagtc accagtgtt ccacttacct actgtccct ctaagtcatt tagcccaaaa ctaaaaacaca atgtgaaaat gtatctgagt attgaaatg aatcttctc ttgctttga aggtatgtc acaaggagct gacagtgtt ctacacattt ctactaat taaattctct gcatacctt aaggtaaatt ggtcagggaac tattaattcc atgtgataca ttaggaagct gaattattag taacaacaat aataattaaa gaatgcaata ctgtaaaaaa gcggccgga att MALLLVSLA FLSLGSCHH RICHCSNRF LCQESKVEI PSDLPNAIE LRFVLTKLRV P IQGAFSGFG DLEKIEISQN DVLEIEADV FSNLPKLHEI RIEKANNLLY ITPEAFQNL P NLQYLLISNT GIKHLPDVHK IHSLOKVLDD IQDNINIHTI ERNSFVGLSF ESVILWLKN GIQEIHNCAF NGTQLDVNL SDNNLEELP NDVFHGASGP VILDISRTI HSLPSYGLN LKKLRARSTY NLKKLPTLEK LVALMEASLT YPSHCCAFAN WRRQISELHP ICNKSILRQE </p>	Homo sapiens
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123	1726	G Protein- Coupled Receptor RDC1	U67784	<p>VDYMTQARGQ RSSLAEDNES SYSRGFDMTY TEFDYDLCNE VVDVTCSPKP DAFNPCEEDIM GYNILRLWIW FISILAITGN IIVLVILTTS QYKLTVPREFL MCNLAFLADLC IGIYLLLIAS VDIHTKSQYH NYAIDWQTGA GCDAAAGFFTV FASELSVYTL TAITLERWHT ITHAMQLDCK VQLRHAASVM VMGWIFAFAA ALFPFEGISS YMKVSLCLPM DIDSPLSOLY VMSLLVLNLV AFVVICGCYI HIYLTVRNPN IVSSSDTRI AKRMALIFT DFLCMAPISF FAISASLKV LITVSKAKIL LVLFHFINS ANPFLYALFT KNFRDRFFIL LSKCGCYEMQ AQIYRTERSS TVHNTHPRNG HCSSAPRVTS GSTYILVPLS HLAQN</p> <p>gccaactcgg tgggtgctcg ggtgaataac caggccaaga ccacaggcta tgacacgcac A tgctacatct tgaacctggc catggcgac ctgtgggtg tccctaccat cccagtcctgg gtggtcagtc tegtgcagca caacctggg cccatgggg agctcagtg caaagtcaca cacctcatct tctccatcaa cctcttcagc agcatcttct tccctcagtg catgagcgtg gaccgtacc tctccatcac ctacttcacc aacaccccca gcagcaggaa gaagatggta cgccgtgctg tctgcatect ggtgtggctg ctggcctctt gcgtgtctct gccgacacc tactacctga agacctcac gctgcgtcc acaaatgaga cctactgccg gtcctcttac cccgagcaca gcatcaagga gtggctgac ggcattggagc tggctccgt gtctctgggc tttgcggtc cctctccat tatcgtgtc tctactcc tctggccag agccatctg gcgtccagtg accagagaa gcacagcagc cggaagata tctctccta cgtgggtggtc tctctgtct gctggttgc ctaccagtg gcggtgctg tggacatctt cctccatctg cactacatcc ctttcacctg ccggtgctg cagccctct tccagggcct catgtcaca cagtgccgtg cgtggtgca ctgctgctc cagccctct tctacagct catcaatgc aactacaggt acgagctgat gaaggcctt atcttcaagt actggccaa aacagggtc accaagctca tcgatgctc cagagctca gagcaggat actctgctt ggagcagagc accaaagat ctgcccctga gaggctctg gacgggtta ctgttttg aacagggtga tgggccctat ggtttctag agcaagcaa agtagcttg ggtcttgatg cttgagtaga gtgaagaggg gagcacgtgc cccctgcac cattctct tctcttgat gacgcagctg tcatttggct gtgctgctg acagtttgc aacaggcaga gctgtgtgc acagcagtc tgtgctcag agccagctga ggacaggct gcctggact ctgtaagata ggatttctg tgttccctga atttttata tgggtattg tatttaaat ttaagactt atttctcac tattgtgta cttataaat gtatttgaat gttataata ttttaaatat tgtttgggag gcatagtct gacataatt cagagtgtg tagttttaag gttagcgtga cttcagttt tgactaagga tgacataat tgttagctgt ttgaaatta tataatata aatatataa tatatgccag tcttgctga aatgtttat ttaccatagt ttatatctg tgtggtggtt tgtaccggca cgggatatg aacgaaaact gcttgaat gcagtttg acattaatag tatgttaaag ttacattta aaataaaca aaaaacttc tggactgcaa atctgcacac acaacgaaca gttgcattc agagattct ctcaattgt aagttattt tttttaataa agattttgt ttcctaaaa aaaaaaaaa aaaaa</p> <p>MDLHFDYAE PGNFSDISWP CNSSDCIIVD TVMCPMPNK SVLLYTLSTF YIFIVIGMI P ANSVVVWNI QAKTTGYDTH CYILNLATD LMVLTIPVW VVSLVQHNQW PMGELTCRVT HLIFSINLFS GIFFLTCMSV DRYLSITYFT NTPSSRKKMV RRVCILVWL LAFVCSLPDT YYLKTVTAS NNETYCRSFY PEHSIKEWLI GMELVSVVLG FAVPFIIAV FYFLARAI ASSDQEKHSS RKIIFSYYV FLVCWLPYHV AVLLDIFSIL HYIPETCRLE HALFTALHVT</p>	Homo sapiens
124	1726	G Protein- Coupled Receptor RDC1	AAA62370.1	<p>MDLHFDYAE PGNFSDISWP CNSSDCIIVD TVMCPMPNK SVLLYTLSTF YIFIVIGMI P ANSVVVWNI QAKTTGYDTH CYILNLATD LMVLTIPVW VVSLVQHNQW PMGELTCRVT HLIFSINLFS GIFFLTCMSV DRYLSITYFT NTPSSRKKMV RRVCILVWL LAFVCSLPDT YYLKTVTAS NNETYCRSFY PEHSIKEWLI GMELVSVVLG FAVPFIIAV FYFLARAI ASSDQEKHSS RKIIFSYYV FLVCWLPYHV AVLLDIFSIL HYIPETCRLE HALFTALHVT</p>	Homo sapiens

125	1762	Galanin Receptor GalR1	NM_001480	AK	QCLSLVHCCV NPVLYSFINR NYRYELMKAF IFKYSANTGL TKLIDASRVS ETEYSALEQN	Homo sapiens
					atcccgctag aatccgtcca gtctctgctc gcgcaccgtg acttctaagg ggcgcggatt A	
					tcagccgagc tgttttcgcc tctcagttgc agcagagaag cccctggcac ccgactctat	
					ccaccaccag gaagctccc aaagagctc tcgcccctgtg gacgactcgg aatccctgga	
					aaagccggga gggagtcgga gcgcacagcc cactggggag gtggcgtctgg gcgcgcggga	
					tgccgaggga gccctctctg caggacgcgc acagtgcact gctgcgcgt cggcagtgcg	
					gggaagcgcc gcgggaagga gcggctcoga gcaacaggtg cagcacgcag ccgctccggg	
					agccaggga aaccgcggc gaagatctgg agcggtaagg cggagagaag ggtctttcca	
					cctgcgcggc tgcagcggc ggatccctct tcccaggctc cgtggtcgcg cagcgggcgg	
					aggcggcgcc gcaggggacc ccagtgtctc cgagatcacc gtcccttccc gagaaggctcc	
					agctccgggc tcccgaacc accctctctc agaaggtcgc ggcgcaaga cggtgccacc	
					aggcaaggcc accggatccc cgtcccgtc ggctcggcc tcggggggaag ctccagactcc	
					taaaactcgca ctctccgtg tttgcgcgg gaccttggc cccccggc ccctgctatc	
					ccgcctccc tcccgcgcg ccccgccgct gcgcgggaca gccccggg ccatggagct	
					ggcggtcggg aacctcagc agggcaacgc gagctggcc gagcccccg ccccgagcc	
					cgggcccgtg ttccgcatcg gcgtggagaa ctctgtcacg ctggtggtgt tcggcctgat	
					cttcgcgtg ggctgtctg gcaacagct agtgatcacc gtgctggcg gcagcaagcc	
					gggcaagccg cggagaccca ccaacctgtt catcctcac ctgagcatcg ccgacctggc	
					ctacctgtc ttctgcacc ccttccagg cctctgtac ccgctgcca cctgggtgct	
					ggcgccctc atctgcaagt tcattccata ctcttacc gtgtccatgc tggtagacat	
					cttccacctg gccgcgatgt ccgtggaccg ctacgtggcc atcgtgcact cgcggcgctc	
					ctcctccctc aggggtgtcc gcaacgcgct gctgggctgc ggctgcactc gggcgctgc	
					cattgcaatg gccctgcgcg tggcctacca ccaggccctc tccaccgc gcgccagcaa	
					ccagaccttc tgcaggagc agtggccga cctcgcacc aagaaggct acgtgggtgtg	
					cacctctgtc ttcggctacc tgcgtccgt cctgtctatc tgcttctgct atgccagggt	
					ccttaatcac ttgcataaa agttgaaga catgtcaaa agtctgaag catccaagaa	
					aaagactgca cagacagttc tgggtgtggt tgtgtgtttt ggaatctcct ggctgccgca	
					ccacatcac catctctggg ctgagtttgg agttttcccg ctgacgcgg ctctcttctc	
					cttcagaatc accgcccact gccggcgta cagcaattcc tccgtgaatc ctatcattta	
					tgcatcttc tctgaaaatt tcagggaagg ctataaaca gtgttcaagt gtcacattcg	
					caaagattca cactgagtg atactaaaga aaataaaagt cgaatagaca cccaccatc	
					aaccaattgt actcatgtgt gataaaagt agagtatcct tatggttgag ttcccatata	
					agtggaccag acacagaac aaacagaatg agctagtaag cgatgctgca acttgttatc	
					ttacaagaa tcaagctgt ttttaattaa tcccagctgt gtaaaaaagt actttgatcc	
					atttaggaaa ttcctaggtc tagtgagaat tatttttcaa ttttatttta gttctaaatt	
					atgttttcaga acaaaaagac aatgctgtac agttttattc ctcttcagac atgaaaagga	
					acatatatat tccatatata tgttcaactc ttcatagatt gtgaactggc ccatcaatat	
					ggtcagggaat atttgcagtc tacattttta agccaattta tttagaaaaa aaatttgagc	
					tttaattctt taattttaag agaagtaata ttgtgaaacta tgtattttta aatatgatca	
					tgacacacac atgatgaatt ttttggccat ttacatagac atatctatta agtggaaaga	

126	1762	Galanin Receptor GalR1	NP_001471.1	aggctttctg aagtctgttt gcacaggtgg cattgtcttc caattgtagc tagcgcacag agctttggaa gcctgtcatt atgagataca gtcggtttac ctacaggttc aattcagtg tgtactgggtg acctgggatg cagtagtagg cactgttgat tcaaatattat cctgtgaaac tggtctttata gaggtaacaa aacagagtca gagaccactg tcttaacagt ggaagatgca aataagtttt tgagaataaa actggatttt gaaattttac attagtactt gacaaaagt ttcattttgc ctggaatgga acctactaaa aagagagatg aaaaaaatc agcaggttg atgagataa taatttctat gggaccataa actagacaga attcagtaag tcacatgaag taatgtcat gcctgtacat aaagcatatt tcatgttga tttagatgac atcaaaaaa aatcatggga ctgaatatac ctgggttatc ctatcttga caaatgcacg ctttttcatt aaatttgtaa tgaatgttaa tgaacattc caccacacat tatttctct aaaaatgta atttgggtt aaaaaccatca ccatttgaat tcaaatgta gttttcatga caattttata ttgatgtgtg tttacaatga gaaaatggca tgaataatatt aaattgtctt gtatcg MELAVGNLSE GNASWPEPPA PEPGLFGIG VENFVLVVF GLIFALGVLDG NSLVITVLAR P SKPGKPRSTT NLFILNLSIA DLAYLLFCIP FOATVYALPT WVLGAFICKE IHYFFTVSML Homo sapiens VSIFTLAAMS VDRYVAIVHS RRSLSLRVSR NALLGVGCIW ALSIAMASPV AYHQGLFHPR ASNQFCWEQ WPDPRHKAY VVCTFVGYL LPHHIIHLWA EFGVPLTPA SFLFRITAHK LAYNSNVNP SKKTAQTVL VVVVFGISW HIRKDSHLSL TKENKSRIDT PPSTNCTHV Homo sapiens IIYAFISENF RKAYKQVFKC HIRKDSHLSL TKENKSRIDT PPSTNCTHV NM_000164 127 1808 Gastric Inhibitory Polypeptide Receptor ggcagcgggtg gcaggggtg caggagcaag tgaccagag caggactggg gacaggcctg A atgcgccctg caccgaacag acccttcgcc gcctcacga tgactacctc tccgactcctg cagctgctgc tgcggctctc actgtgcggg ctgctgtccc agaggcgga gacaggctct aaggggcaga cggcggggga cgtgtaccag cgctgggaac ggtaccgcag ggaagtgcag gagacctgg cagccgcgga accgccttca ggcctcgcc ttacgggtc cttcgatatg tacgtctgct gggactatgc tgcacccaat ggcactgcc gtgcgtcctg cccctggtac ctgccctggc accaccatgt ggctgcaggt ttgcctccc gccagtgtgg cagtgtggc caatggggac ttgtggagaga ccatacaca ttgtagaacc cagagaagaa tgaggccttt ctggacaaa ggctcatctt ggagcgggtg caggtcatgt aactgtcgg ctactccctg tctctcgcca cactgtgctt agccctgtc atcttgagtt tgttcaggcg gctacattgc actagaaact atatccacat caacctgtt acgtctttca tgcgtcgagc tgcggccatt ctcagccgag accgtctgct acctcgacct ggccttacc ttggggacca ggccttgcg ctgtggaacc aggcctcgc tgcctgcgc acggcccaga tgcgtaccca gctactgcgtg ggtgccaact acagtggct gctggtggag ggcgtctacc tgcacagtct cctggtgctc gtggaggct ccgaggaggg ccacttcgc tactacctg tccctggctg gggggccccc gcgcttttcg tcattccctg ggtgategtc aggtacctgt acgagaacac gcagtgtgg gagcgaacg aagtcaaggc catttggtgg attatacga ccccatcct catgaccatc ttgattaatt tctctattt tatccgcat ctggcattc tctgtccaa gctgaggaga cggcaaatgc cctgcgggga ttaccggctg aggtggctc gctccacgct gacgtgggtg ccccgtctgg gtgtccaca ggtggtgttt gctcccgtga cagaggaaca ggcggggg gacctgcgct tcgccaagct cggcttttag atcttctca gctccttcca gggcttctg gtcagcgtcc tctactgctt catcaacaag gaggtgcagt cggagatccg ccgtggctgg caccactgcc gcctgcgcgc cagcctgggc gaggagcaac gccagctccc ggagcgccg
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128	1808	Gastric Inhibitory Polypeptide Receptor	NP_000155.1	<p>ttcggggccc tgcctccggg ctccggcccg ggcgaggtcc ccaccagcgg cggcttgctc</p> <p>tcggggaccc tcccagggcc tgggaatgag gccagccggg agttggaag ttactgctag</p> <p>ggggcgggat ccccggtctt gttcagttag catggtatta ttgagtgcca actgctgccc</p> <p>agggccagta cggagagcgc tggggaaatg gtgaaggaaa cagaaaaaag gtccctgccc</p> <p>ttctggagat gacaaactgag tggggaaaac agaccgtgaa cacaaaacat caagtccac</p> <p>acagctatg gaatggttat gaagggaagc gagaggggg cctagggtgg tctgggaggg</p> <p>gtctccaagg agtgacatc taagccatcc ccgaagagg tgaagagat cactttgggg</p> <p>agagctggag aacaggatc taggcggaag cgatagcata ggcaaggcc cttgggcagg</p> <p>aagcgctca gcctggctg gagtgaatt aagtcagagc caacaggtg gggagagaca</p> <p>gagaagtggg caggggcacc caagttggga ttctattica ggtgcattgg agattcttag</p> <p>gagtgctct tgggggtaat attttattt ttaaaaaatg aggat</p> <p>MTTSPILQLL LRLSLGLL ORAETGSKGQ TAGELYQRWE RYRRECQETL AAAPPPSGLA P</p> <p>CNGSEDMYVC WDYAAPNATA RASCPWYLPW HHVAAGFVL RQCGSDGQWG LWRDHTQCEN</p> <p>PEKNEAFIDQ RLILERLQVM YTVGYSLSLA TLLALLLIS LFRLHCTRN YIHINLFTSF</p> <p>MLRAAAILSR DRLLPRPGPY LGDQALALWN QALAACRTAQ IVTQYCVGAN YTWLLVEGVY</p> <p>LHSLVLVGG SEEGHFRYYL LLGWGAPALF VIPWVIVRYL YENTQCWERN EVKAIWVIR</p> <p>TPILMTILIN FLIFIRILGI LLSKLRTRQM RCRDYRLRLA RSTLTLPVLL GVHEVVEFAPV</p> <p>TEEQARGALR FAKLGFEIFL SSFQGFIVSV LYCFINKEVQ SEIRRGWHHC RLRRSLGEEQ</p> <p>RQLPERAFRA LPSGSGPGEV PTERGLSSGT LPGPNGEASR ELESYC</p>	Homo sapiens
129	1813	Gastrin- Releasing Peptide Receptor	NM_005314	<p>ccagattcta aatatcagga agacgctgt gggaaaatag caggccaaaa gttcttagta A</p> <p>aactgcagca agggagactc agactagaat ggaggtagaa agaactgatg cagagtgggt</p> <p>ttaattctaa gcttttttgt gctaagttt agttgtttt aacttatga atttagagtt</p> <p>gtattgcact ggtcatgtga aagccagagc agcaccagtg tcaaaatagt gacagagagt</p> <p>tttgaatacc atagtttaga tatatgtact cagagtattt ttattaaaga aggcaaaagag</p> <p>cccggcatag atcttatctt catcttcact cggttgcaaa atcaatagtt aagaaatagc</p> <p>atctaaggga acttttaggt gggaaaaaa atctagagat ggctctaaat gactgtttcc</p> <p>ttctgaactt ggaggtggac catttcatgc actgcaacat ctccagtcac agtgcggatc</p> <p>tcccgtgaa cgatgactgg tcccaccggg ggatecctta tgtcatccct gcagtttatg</p> <p>gggttatcat tctgataggc ctcatgggca acatcacttt gatcaagatc ttctgtacag</p> <p>tcaagttcat gcgaacgtt ccaaacctgt tcatttccag tctggctttg ggagacctgc</p> <p>tcctcctaata acgtgtgct ccagtggatg ccagcaggtta cctggctgac agatggctat</p> <p>ttggcaggat tggctgcaaa ctgatccctt ttatacagct tacctctgtt ggggtgtctg</p> <p>tcttcacact cagggcgctc tcggcagaca gatacaaac cattgtccgg ccaatggata</p> <p>tccaggctc ccattgcccgt atgaagatct gctctaaagc ggcctttatc tggatcatct</p> <p>ccatgtgct gccattcca gagccgtgt ttcttgagct ccatcccttc catgaggaaa</p> <p>gcaccaacca gaccttcatt agctgtgcc cataccaca ctctaataag cttcacccca</p> <p>aaatccattc tatggcttc ttctgtgtct tctacgtcat ccactgtcg atcatctctg</p> <p>tttactacta cttcattgct aaaaatctga tccagagtgc ttacaatctt cccgtggaag</p> <p>ggaatatata tgtcaagaag cagattgaat cccggaagcg acttgccaag acagtgtgg</p> <p>tgtttgtggg cctgttcgcc ttctgtggc tcccaatca tgtcatctac ctgtaccgct</p> <p>cctaccacta ctctgaggtg gacacctca tgtccactt tgtcaccagc atctgtgccc</p>	Homo sapiens

130	1813	Gastrin- Releasing Peptide Receptor	NP_005305.1	gctctctggc cttaccacac tctgctgta accccttgc cctctacctg ctgagcaaga gtttcaggaa acagtccaac actcagctgc tctgttgcca gcttgccctg atcatccggg ctcacagcac tggagagagt acaacctgca tgacctcct caagagtacc aacctctccg tggccacctt tagcctcatc aatggaaaca tctgtcacga gcggtatgtc tagattgacc cttgattttg cccctgagg gacggttttg ctttatgttg acacaggaac ccttgcatcc attgttgtgt ctgtgcccct caaagagcct tcagaatgct cctgagtgtt gtaggtgggg gtggggaggc ccaaatgatg gatcacatt atatttgaa agaagc	Homo sapiens
				LIKIFCTVKS MRNVPNLFIS SLALGDLILL ITCAPVDASR YLADRWLFGR IGCKLIPFIQ LTSVGVSVFT LTALSADRYK AIVRPMIDIQA SHALMKICLK AAFIWIISML LAIPEAVFSD LHPFHEESTN QTIFISCAPYP HSNEHPKIH SMASFLVFYV IPLSIISVY YFIAKNLIQS AYNLPVEGNI HVKKQIESRK RLAKTVLVFV GLFAFCWLPN HVIYLYRSYH YSEVDTSMLH FVTSICARLL AFTNSCVNPF ALYLLSKSFR KQFNTQLLCC QPGLIIRSHS TGRSTTCMTS LKSTNPSVAT FSLINGNICH ERYV	
131	1814	Cholecystoki nin B Receptor	NM_000731	atggagctgc tcaagctgaa ccgagagctg cagggaaacc gaccggggcc gggggcttcc A ctgtgccgcc cggggggcgcc tctctcaac agcagcagtg tgggcaacct cagctgcgag ccccctcgca ttccgggagc cgggacacga gaattggagc tggccattag aatcactctt tacgcagtga tcttctctgat gacggttga gaaatatgc tcatcatcgt ggtcctggga ctgagccgcc cctgaggagc tgtcaccaat gccttccctc tctcactggc agtcagcgac ctcctgctgg ctgtggcttg catgcccctt accctctctc ccaatctcat gggcacattc atctttggca ccgtcatctg caaggcggtt tctcactcca tgggggtgtc tgtgagtgtg tccacgctaa gcctcgtggc catcgcactg gagcgtgaca gcgccatctg ccgaccactg caggcacgag tgtggcagac gcgtccccc gcggctcgcg tgattgtagc cactgggctg ctgtccggac tactcatggt gccctacccc gtgtacactg tctgtcaacc agtggggcct cgtgtgctgc agtgcgtgca tgcctggccc agtgcgcggg tccgccagac ctggtccgta ctgctgcttc tgcctctgtt cttcatcccg ggtgtggtta tggccgtggc ctacgggctt atctctcgcg agctctactt agggcttcgc ttgacggcg acagtgcag cgacagccaa agcagggtcc gaaaccaagg cgggctgcca ggggctgttc accagaaagg gcgttgccgg cctgagactg gcgcggttgg cgaagacagc gatggctgct acgtgcaact tccacgttcc cgccctggcc tggagctgac ggcgctgacg gctccaggcg cgggatccgg ctcccggccc accagggcca agctgctggc taagaagcg gtggtgcgaa tgtgtctggt gatcgttgtg cttttttttc tgtgttgtt gccagtttat agtgccaaca cgtggcgcg ctttgatggc ccgggtgcac accgagcact ctgggtgct cctatctcct tcatcactt gctgagctac gctcgggctt gtgtcaacc cctggctctac tgcctcatgc accgtcgctt tggccaggcc tgcttgga aa cttgctgc ctgctgcccc cggcctccac gagctcgccc cagggtcttt cccgatgagg acctccccc tccctccatt gcttcgctgt ccaggcttag ctacaccacc atcagcacac tgggcccctg ctgaggagta gaggggctgt gggggttgag gcaggggcaa tgacatgcac tgaccttcc agacatagaa aacacaaacc acaactgaca caggaaacca acacccaaag catggactaa ccccaacgac aggaaaaagt agcttacctg acacaaagg aataagaatg gagcagtaca tgggaaagg ggcattgcctc tgatatggga ctgagcctgg cccatagaaa catgacactg accttgaga gacacagcgt cctagcagt gaactattc	Homo sapiens

132	1814	Cholecystoki nin B Receptor	NP_000722.1	<p> tatacagtggaactctgac aagggtgac ctgctctca cacacataga ttaatggcac tgattgttt agagactatg gagcctggca caggactgac tctgggatgc tctagtttg acctcaagt gaccttccc aatcagcact gaaaataacca tcaggcctaa tctcatacct ctgaccaaca ggctgttctg cactgaaaag gttcttcatc ctttccagt taaggaccgt ggcctgccc tctcttctt tcccaactg tcaaaatc aataaatgt ttggcttct cctgaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aagaattcc MELKINRSV QGTGPGAS LCRPGPLN SSSVGNLSCE PPRIRGACR ELELAIRITL P YAVIFMSVG GNMLIVVLG LSRRLRTVN AFLSLAVSD LLLAVACMF TLLPNLMGTF IFGTICKAV SYLMGVSVV STLSLVAIAL ERYSAICRPL QARVWQTRSH AARVIVATWL LSGLMVPYP VYTVVQVGP RVLCVHRWP SARVRQTSV LLLLLFFIP GVMAVAYGL ISRELYLGLR FDGSDSDSQ SRVRNQGGLP GAVHQNGRCR PETGAVGEDS DGCYVQLPRS RPALELTALT APGPGSGSRP TQAKLIAKR VVRMLLVIV LFFLCWLPVY SANTWRAFDG PGAHRALSQA PISFIHLSY ASACVNPLVY CFMHRFRQA CLETCARCCP RPPRARPRAL PDEDPTPSI ASLSRLSYTT ISTLGP </p>	Homo sapiens
133	1834	Glucagon Receptor	NM_000160	<p> ggatctggca gcgcgcgaa gacgagcgtt caccggcgc cgaccggag gcgccagag A gacgcgggg agccaaagccg accccggagc agcgcgcgc ggccctgag gctcaaaagg gcagcttcag gggagagacac cccactggcc aggaagcccc aggtctgtct gctctgccac tcagctgccc tcggaggagc gtacacacac accaggactg cattgcccc gtgtgcagcc cctgccagat gtggaggca gctagctgcc cagaggcatg cccccctgc agccacagc acctctgtg ctgttctgc tgtctgtggc ctgcccagca caggtccctc ccgtcaggt gatggaattc ctgtttgaga agtggaaact ctacggtgac caggtccacc acaacctgag cctgctgccc cctcccacgg agtgggtgtg caacagaacc ttcgacaagt attcctgctg gcgggaacc ccgcacaata ccacggccaa catctctgc ccttggtacc tgccttggca ccacaaagt caacacgct tcgtgttcaa gagatgcggg cccgacggtc agtgggtgcg tggaccccg gggcagcctt ggctgtatgc ctcccagtc cagatggatg gcgaggagat tgagggtccag aaggaggtgg ccaagatgta cagcagcttc caggtgatgt acacagtgg ctacagcctg tccctggggg cctgtctct cgccttggcc atcctggggg gcctcagcaa gtgcaactgc accgcgaatg ccattccacgc gaatctgttt gcgtccttcg tgcgaaagc cagctccgtg ctggtcattg atgggctgct caggacccgc tacagccaga aaattggcga cgacctcagt gtcagcact ggctcagtga tggagcgtg gctggctgcc gtgtggcgcg gggtttcatg caatatggca tcgtggccaa ctactgtgg ctgctgggtg agggcctgta cctgcacaac ctgctgggc tgccacctt gggccacct ccccgagagg agcttcttca gcctctacct gggcatcggc tggggtgccc ccattgctgt cgtcgtcccc tgggcagtgg tcaagtgtct gttcgagaac gtccagtgt ggaaccagca tgacaactg ggttcttggg ggtatcctgcg gttccccgtc ttcttgcca ttctgatcaa ttcttcatc ttcttccgca tcgttcagct gctcgtggcc aagctgcggg cagggcagat gcaccacaca gactacaagt tccggctggc caagtccatg ctgacctca tccctctgct gggcgtccac gaagtgtct ttgcttctgt gacggacgag cagccccagg gcacctgcg ctccgcaag ctcttcttcg acctcttct cagctcttc caggccctgc tgggtgctgt cctctactgc ttcctcaaca aggaggtgca gtcggagctg cggcggcgtt ggcacgcgtg gcgcctggc aaagtgtat gggagagcgc gaacaccag aaccacagg cctcatcttc gcccgccac ggccctcca gcaaggagct </p>	Homo sapiens

134	1834	Glucagon Receptor	NP_000151.1	gaggttggtg aggggtggtg gcagccagga ttcatctgcg gagaccctc ttgctggtgg cctccctaga ttggtgaga gcccttctg aacctgctg ggaccctcagc tagggctgga ctctggcacc cagagggctc gctggacaac ccagaaactgg acgccagct gaggtgggg gggggggagc caacagcagc cccacactac ccccccacc cagtggtggt gtctgcgaga ttggccctcc tctccctgca cctgcttctg cctgctgca gagtgagca gagaggtcca ggcggggagt ggggctgctg ccgtgaactg cgtgcagtg tccccacgta tgtcggcagc tcccatgtgc atggaatgt cctccaacaa taaagagctc aagtgtgctc cgtg MPPCQQRPL LLLLLLIACQ PQVPSQVMD FLFEKWKLYG DQCHNLSLL PPTELVCNR P TFDKYSCWPD TPANTANIS CPWYLPWHHK VQHRFVKRC GPDGQWVRGP RQQWRDASQ QMDGEEIEV QKEVAKMYSS FQVMYTVGYS LSLGALLAL AILGGLSKLH CTRNAIHANL FASFVLKASS VLVIDGLLRT RYSQKIGDDL SVSTWLSGCA VAGCRVAADF MQYGIVANYC WLLVEGLYLH NLLGLATLPE RSFFSLYIGI GWGAPMLFV PWAVVKCLFE NVQCWTSNDN MGFWILRFP VELAILNEF IFVRIVQLLV AKLRARQMHX TDYKFRILAKS TLTLLPLLV HEVVEAFVTD EHAQGLTISA KLFFDLFLSS FQGLLVAVLY CFLNKEVQSE LRRWHRWRL GKVLWEERNL SNHRASSPG HGPPSKELQF GRGGGSQDSS AETPLAGGLP RLAESEPF 135	1925	Gonadotropin -Releasing Hormone Receptor	NM_000406	ttggttgctg gtccacttac aaacactttt catatttgta tgtctttcca atggttatcc A tggtttgttc atttcaggca tatggccctg atcagattaa ctgacatgat gtatatgcaa agccttttga gtcttcaga aaaataaatt atcttattca agactgattg cttataagga acttattata gctaataatag taggcacaat tttttttgta atctcctag atgagtcaga ctttagtttt gatgtaggta aaaattttat ggtcacaaat ctcaggtgtg agaaaatctc tttctctgat actctatata aatagagat ataaatttt caagtctgga agtagtgaga gaagctggta attctggaca tatagtga caaaaagg gtccaggta caggactggt ctaagctgct caagattcag gagacagcca gtacacagag aagctgagga aataatcacg atatactaa aacacttctc taacctctg tggtaacaag ctctttaaag gggctggatg atgttggtt cactttttat caccagcaaa ggctaagata atgtatatag taaatattta gtaaccattt attaaataaa taaatatata agacagaata acaagata ataatgaac caataagaaat gcaccatcta agtcaaaata gccactttta tcttaacat tgtacctgct ttggctgctg cagaagcaaa ctgttggtgca ttagacaaat caagctggtg atttaataaa ttccaatgta agtcttacc a gtattgatga ataaactatcc agcactcacc atgaaagtta aagaagcaac acagaaaaag ttcctaagt gtcccaattt gaaatgatca gataacctat aaaaaacaat attcatatta tactaacata aacacatata aatgcactta cagcagttac acagtattct cttcaataac tagtttctct atgcattaat gtgtaataac agcaactaca atatttagat aattataaaa accaaggcaa taatttaaaa atgatttaac cgttttactc taacttaagc atggtattgga tcagtaagat tgattaataa attgaatgc agtcagttgg attgattcta atttaagatt ttaatttgtt gtagaataa ttttaagtga tatatttgtc cagtgttcga gtgctcaaca gtgtgttga aaaggaaaaa aagaaatgtt ttgagaatgt gttaattcct taagacaatg gattttaatt ggactggtg ttttcatttt tcttcattat cattatacat ctgtatgttg gagagaacac taacactaaa tagtttttag aaagtgtttt ttgaagtatt ttaaatcata atatcatgac tgacttttga attcaaaaatt aggtgtgac tatccttctt caacttagaa gagtgtgtg aaagccagac catctgctga ggtgctacag ttacatgtgg ccctcagaat gcgtttggcc tgctctgttt tagcactctg ttggattacc
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Homo
sapiensHomo
sapiens

136	1925	Gonadotropin -Releasing Hormone Receptor	NP_000397.1	<p>aatacacaaa acaagttaac ctttgatctt tcacattaag tatctcaggg aaaaaattg acatacgtct aaacctgtga cgtttccatc taaagaaggc agaaataaaa catggacttt agattcgggtt acaataaaat atcagatgca ccagagacac aaggttgaa gctctgtcct gggaaaatat ggcaaacagt gcctctcctg aacagaatca aaatcactgt tcagccatca acaacagcat ccactgatg cagggaacc tcccactct gacttgctt ggaagatcc gagtacgggt tactttcttc cttttctgac tcttgogac tttaaatgtt cttttctgt tgaacctca gaagtggaca cagaagaaag agaaaggaa aagctctca agaatgaagc tgctctaaa acatctgacc ttagccaacc tgttgagac tctgattgc atgccactgg atgggatgtg gaacattaca gtccaatggt atgctggaga gttactctgc aaagtctca gttatctaaa gctttcttc atgtatgcc cagccttcac gatggtgtg atcagcctgg accgctccct ggctatcacg agccctctag ctttgaaaag caacagcaaa gtcggacagt ccatgggtgg cctggcctgg atcctcagta gtgtcttgc aggaccacag ttatacatct tcaggatgat tcactagca gacagctctg gacagacaaa agtttctct caatgtgtaa cacactgcag tttttcaaa tgggtgcac aagcatttta taacttttcc accttcagct gcctcttcac catcctctt ttcactatgc tgatctgcaa tgcaaaaaatc atcttcaccc tgacacgggt ccttcacag gaccccccag aactacaact gaatcagtc aagaacaata taccagagc acggctgaag actctaaaaa tgacggttg atttgccact tcatttactg tctgctggac tccctactat gtcctaggaa tttggtattg gttgatccct gaaatgttaa acaggtgtgc agaccagta aatcacttct tctttctctt gtccttttta aacctatgct ttgatccact tatctatgga tatttttctc tgtga</p>	Homo sapiens
137	1945	Opsin, green- sensitive	NM_000513	<p>SDPVNHFPEL FAFLNPFCDP LIYGYEFL</p> <p>atggcccagc agtggagcct ccaaaggctc gcaggccgcc atccgcagga cagctatgag A gacagcacc agtccagcat cttcacctac accaacagca actccaccag aggcccttc gaaggccga attaccacat cgtcccccga tgggtgtacc acctcaccag tgtctggatg atctttgtgg tcattgcac cgttttcaca aatgggcttg tgctggcggc caccatgaag ttcaagaagc tgcgccacc gctgaactgg atcctgtgta acctggcggg cgtgacctg gcagagaccg tcctgcaccg cactatcac gttgtgaacc aggtctatgg ctacttcgtg ctgggccacc ctatgtgtgt cctggagggc tacaccgtct cctgtgtgg gatcacaggt ctctggtctc tggccatcat ttctgggag agatggatgg tggctgtgaa gccctttggc aatgtgagat ttgatgcaaa gctggccatc gtgggcatgg cttctctctg gatctgggt gctgtgtgga cagccccgcc catctttggt tggagcaggt actggcccc cgccctgaag acttcacg gcccagacgt gttcagcggc agctcgtacc ccgggggtgca gttctacatg attgtcctca tggtcacctg ctgcatacc ccactcagca tcatcgtgt ctgctacctc caagtgtggc tggccatccg agcgggtgca aagcagcaga aagagtctga atccaccag aaggcagaga aggaagtgc gcgcatgggt gttggtatgg tcttgccatt ctgcttctgc tggggaccat acgcttctt cgcattgctt gctgctgcca accctggcta ccccttccac</p>	Homo sapiens

138	1945	Opsin, green- sensitive	NP_000504.1	<p> cctttgatgg ctgacctgcc ggccttcttt gccaaaagtg ccaactatcta caaccocggtt atctatgtct ttatgaaccg gcagtttcga aactcatct tgcagctttt cgggaagaag gttgacgatg gctctgaact ctccagcgcc tccaaaacgg aggtctcatc tgtgtcctcg gtatcgctcg catga MAQWLSLQRL AGRHQDSYE DSTQSIITY TNSNSTRGPF EGPNYHIAPR WYVHLTSVWM P IFVVIASVFT NGLVLAATMK FKKLRHPLNW ILVNLAVADL AETVIASTIS VVQVYGYFV LGHFMCVLEG YTVSLCGITG LWSLAISWE RWMVCKPFG NVRFDAKLA I VGIAFSWIWA AVWTAPPIFG WSRYPHGLK TSCGPDVFSG SSYPGVSQSYM IVLMTCCIT PLSIIVLCYL QVWLAIKRAVA KQKSESTQ KAEKEVTRMV VVMVLAFCFC WGPYAFACF AAANPGYFFH PLMALPAFF AKSATIYNPV IYVFMNRQFR NCILQLFGKK VDDGSELSSA SKTEVSSVSS VSPA </p>	Homo sapiens
139	1951	Growth Hormone Secretagogue Receptor	NM_004122	<p> atgtggaacg cgacgccag cgaagagccg gggttcaacc tcacactggc cgacctggac A tgggatgctt ccccgccgcaa cgactcgctg ggcgaacagc tgcageact cttcccccgg ccgctgctgg cggcgctcac agccacctgc ttgcactct tctgtgtggg tategctggc aacctgctca ccatgtgtg ggtgtcgcgc ttccgcgagc tgcgcaccac caccacctc tacctgtcca gcatggctt ctccgatctg ctcatctcc tctgcatgcc cctggacctc gttcgctctt ggcagtaccg gccctggaac ttccggcagc tctctgcaa actcttccaa ttcgtcagtg agagctgcac ctacgccacg gtgctcaca tcacagcgt gagcgtcgag cgctacttcg ccatctgctt cccactccg gccaaagtgg tggtaacca gggcggggtg aagctggta tcttctcat ctgggcccgt gccctctgca cgccgggccc catctctgtg ctagtgggg tggagcacga gaacgcacc gcccttggg acaccaaga gtccgcccc accgagtttg cgggtgcctc tggactgctc acggtcatgg tgtgggtgc cagcatcttc ttcttcttc ctgtctctg tctcacggtc ctctacagtc tcatcgagc gaagctgtgg cggagaggg cggcgatgc tgcgtgggt gccctgctca gggaccagaa ccacaagcaa accgtgaaa tgctgggtg gtctcagcg gcgctcaggc ttctctcgc ggtcctcatc ctctccctgt gccctctccc tctctctga </p>	Homo sapiens
140	1951	Growth Hormone Secretagogue Receptor	NP_004113.1	<p> MWNATPSEEP GENLTADLD WDASPGNDSL GDELLQLFPA PLLAGVTATC VALFVVGIAG P NLLTMLVVSF FRELRTTNL YLSSMAFSDL LIFLCMLDL VRLWQYRPWN FGDLLCKLFQ FVSECTYAT VLTITALSVE RYFAICFPLR AKVAVTKGRV KLVIFVIWAV AFCSAGPIFV LVGVEHNGT DPWDTNECRP TEFAVRSGLL TVMVMVSSIF FFLPVFCLTV LYSLIGRKLW RRRRGDVVG ASLRDQNHKQ TVMMLGCSQR ALRLSLAGPI LSICLLPSL </p>	Homo sapiens
141	1954	Growth Hormone- Releasing Hormone Receptor	NM_000823	<p> agcagccaa gcttactgag gctggtggag ggagccactg ctgggctcac catggaccgc A cggatgtggg gggcccacgt ctctgcgtg ttgagcccg taccgacctg attgggccac atgcacccag aatgtgaact catcacccag ctgagagagg atgagagtgc ctgtctacaa gcagcagagg agatgcccaa caccacctg gctgcccct cctgccccga ttcttctct tgctggccaa cggcaggctc tggcagtggtg gtcacctcc cctgccccga ttcttctct cacttcagct cagagttagg ggctgtgaa cgggattgta ctatcactg ctggtctgag cccttccac ctacacctgt ggcctgccc ttgcctctgg agctgctggc tgaggaggaa tcttacttct ccacagtga gattatctac accgtgggccc atagcatctc tatttagccc ctcttcgtgg ccatcacat cctgggtgct ctccaggaggc tccactgcc ccggaactac gtccacaccc agctgttcac cacttttacc ctcaaggcgg gacgtgtgtt cctgaaggat </p>	Homo sapiens

142	1954	Growth Hormone- Releasing Hormone Receptor	NP_000814.1	ggtgcccctt tcacacagca cgacactgac cactgcagct tctccactgt tctatgcaag gtctctgtgg ccgcctccca ttgcgcacc atgaccactc tcagctggct gttggcagaa gccgtctacc tgaactgcct cctggcctcc accctcccca gctcaaggag agccttctgg tggctgggtc tcgctggctg ggggctgccc gtgctcttca ctggcacgtg ggtgagctgc aaactggcct tcgaggacat cgcgtgctgg gacctggagc acacctccc ctactggtag atcatcaaa gggccattgt cctctcggtc ggggtgaact ttgggctttt tctcaatatt atccgcatcc tggtagagaa actggagcca gctgagggca gctccatac ccagtctcag tattggctgc tctccaagtc gacacttttc ctgataccac tctttggaat tcaatacatc atcttcaact tctggccaga caatgctggc ctgggcacc gcctccccc ggagctggga ctgggttctc tccagggtct cattgttggc atctctact gcttctctaa ccaagaggtg aggactgaga tctcacggaa gtggcatggc catgaccttg agcttctgcc agcctggagg acctgtgcta agtgagaccac gccttccgc tcggcggaat agtgctgac atctatgtgc taggtgctct catcacgcca ctggagtcca cacttgaatt tgggcagcta ccacgggtct gccatgctct ggaggagcaa gggggccaca tccccacc agctgttacc cagccccggg caggtgcagc ccttccctcc tgtctctgca tctgactctc ttttgaggtc cctgtatgtc tacctctgac ttctgtgtgc cctctgtgtc tgcctcacc catctctt actggggcct ggggctctag cccaagctc agaggagcca ataacctgt aatgaaaaa aaaaaa MDRRWGAHV FCVLSPLPTV LGHMPECDF ITQLREDESA CLQAAEEMPNTTLGCPATWD P GLLCWPTAGS GEWVTLPCPD FFSHFSSSG AVKRDCITIG WSEPFPPYV ACPVPLELLA EESYFSTVK IYTVGHIS IVALFVAIT LVALRRLHCP RNYVHTQLFT TFLKAGRVF LKDAALFHSW DTDHCSFSTV LKVSVAASH FATMNFSL LAEVYLNCL LASTSPSSRR AFWLVLGAW GLPVLFTGW VSKLAFEDI ACWDLDDTSP YWIIKGPV LSVGVNFGLE LNIIRILVRK LEPAQGSLLHT QSQYWRLSKS TFLFIPLFGI HYIIFNLPD NAGLGIRLPL ELGLGSFQGF IVAILYCLN QEVRTSIRK WHGHDPELLP AWRTAKWTT PPSAAKVLTT SMC	Homo sapiens
143	2120	Histamine H1 Receptor	NM_000861	caggagagaca tacaggattt aagaagccca tcatggagaa gaccttcaat tacagagata A aaaagtthtt ctgtgggaac aagttaacac tagatggcag ataacagact gaggagtggag ctgcttctga ctcgattaaa agggagtgga gccataactg gcgctgctc tttcgccaat gagcctccc aattcctcct gctctctaga agacaagatg tgtgagggca acaagaccac tatggccagc cccagctga tgcctctggt ggtggctcctg agcactatct gcttggctac agtagggctc aacctgctgg tctgtatgc cgtacggagt gacggaagc tccacactgt ggggaacctg tacatctca gctctcgtt ggcggacttg atcgtgggtg ccgtcgtcat gcctatgaac atcctctacc tgcctatgtc caagtgtca ctggccctc ctctctgctc cttttgctt tccatggact atgtggccag cacagctcc atttccagt tcttccctc gtgcatgat cgtaccgt ctgtccagca gcccctcagg taccttaagt atcgtaccaa gacccgagcc tcggccacca ttctggggc ctggtttctc tcttttctgt ggttattcc cattctaggc tggaaactact tcatgagca gacctcgtg gcgcgaggg acaagtgtga gacagactc tatgatgtca cctgggttcaa ggtcatgact gccatcatca acttctacct gccacactg ctcattgctt ggttctatgc caagatctac aaggccgtac gacaacactg ccagcacagg gagctcata ataggctcc ccttctctc tcagaaajta agctgaggcc agagaacccc aagggggatg ccaagaacc agggaaggag tctccctggg aggttctgaa	Homo sapiens

aaggaaagcca aaagatgctg gtggtggatc tgtcttgaag tcaccatccc aaacccccaa
ggagatgaaa tcccagttg tcttcagcca agagatgat agagaagtag acaaaactcta
ctgctttcca ctgtatatg tgcacatgca ggtgcggca gaggggagta gcagggacta
tgtagccgtc aaccggagcc atggccagct caagacagat gagcagggcc tgaacacaca
tggggccagc gagatatcag aggatcagat gttaggtgat agccaatcct tctctcgaac
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Homo
sapiens

P

2120 Histamine H1 NP_000852.1
Receptor

144

atgtttaaaa gcatactcta tgtgatttat ttatttttac ctttctgagt cttctggagt
 aagaagatgt ttgaaatgt accatcaaat gtaaacagag ttgatattgg gctttctctt
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 VGNLYIVSL VADLIVGAV MPNNILYLLM SKWSLGRPLC LFWLSMDYVA STASIFSVEI
 LCIDRYRSVQ QPLRYLKRYT KTRASATILG AWFLSFLWVI PILGWNHEMQ QTSVRREDKC
 ETDFYDVTWF KVM TALINFY LPTLLMLWFY AKIYKAVROH COHRELINRS LPSFSEIKLR
 PENPKGDARK PGKESPEVL KRPKPDAGG SVLKSPSQTP KEMKSPVVS QEDDREVDKL
 YCFPLDIVHM QAAAEGRSD YVAVNRSHGQ LKTDQGLNT HGASEISEDQ MLGDSQSFSR
 TDSDTTETA PGKGLRSGS NTGLDYIKFT WKRLRSHSRQ YVSGLHMNRE RKAQQLGFI
 MAAFILCWIP YFIFFMVIAF CKNCCNEHLH MFTIWLGYIN STLNPLIYPL CNENFKKTEK
 RILHRS

Homo
sapiens

A

2121 Histamine H2 NM_022304
Receptor

145

ctctgcct ccactgactc cagagaggga gatccccagt acttgactcc atcacgcaga
 tgggagcagg caccagctat ggagagggat acagctgcgt ctccacatga cccatcctgc
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 aatgagggtg tagaagccat cgttctgtgg ctgggctatg ccaactcag cctgaacccc
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146	2121	Histamine H2 Receptor	NP_071640.1	aggctggcca accgcaactc ccacaaact tctctgaggt ccaacgcctc tcagctgtcc aggaccaaa gccgagaacc caggcaacag gaagagaac ccctgaagct ccaggtgtgg agtggacag aagtcacggc cccccaggga gccacagaca ggtaatagcc ctageccattg gtgcacagga tggggggcaat gggaggggat gctactgatg ggaatgatta agggagctgc tgtttaggtg gtgtgtgttt atgttctagg aactcttcag gacactttg taaacacct cttgcttaac cctcccaacg gcccccaag gtgagaacta gctccctttt aaaaggagaca cattaaaatt ctcagagac ttggcaagg cgcacacagt ggggcat	Homo sapiens
147	2783	Opioid Receptor, kappa 1 (OPRK1)	NM_000912	MAPNGPASSF CLDSTACKIT ITVLAVALIL ITVAGNVVVC LAVGLNRRRL NLNCFIVISL P AITDLLGLL VLPFSAIYQL SKWSFGKVF CNIYTSLDM LCTASILNLF MISLDRYCAV MDPLRYPVIV TPVRVAISLV LIWVISITLS FLSIHLGWS RNETSKGNHT TSKCKVQVNE VYGLVDGLVT FYLPLIMCI TYRIFKVAR DQAKRINHIS SWKAATIREH KATVTLAAM GAFIICWFPY FTAIFYRGLR GDDAINEVLE AIVLWLGAN SALNPILYAA LNRDFRTGYQ QLFCCRLANR NSHKTSLSRN ASQLSRTQSR EPRQEEKPL KLQWSGTEV TAPQGATDR tgcagcactc accatggaat ccccgatcca gatcttcgcg gggagcctg gccctacctg A cgccccgagc cgctgcctgc cccccaaacg cagcgccctgg tttcccgctt gggccgagcc cgacagcaac ggcagcgccg gctcggaggga cgcgcagctg gagcccgcg acatctccc ggccatcccg gtcatacca cggcggtcta ctcctgtagt ttcgtctgg gcttgggtgg caactcgtg gtcagtgtcg tgatcatcgg atacacaaa atgaagacag caaccaacat ttacataatt aacctggctt tggcagatgc tttagttact acaaccatgc cctttcagag tacgggtctac ttgatgaatt cctggcctt tggggatgbg cgtgcaaga tagtaattc cattgattac tacaacatgt tcaccagcat accatgactg accatgaga cgtggagccg ctacattgcc gtgtgccacc ccgtgaaggc tttggacttc cgcacacct tgaaggcaaa gatcataat atctgatctt ggctgtgtc gtcattctgt ggcattctg caatagtctt tggaggcacc aaagtcaggg aagacgtcga tgtcattgag tgcctcttg agttcccaga tgatgactac tcctgggtgg acccttctcat gaagatctgc gcttctcatc ttgccttctg gatccctgtc ctcatacca tcgtctgcta caccctgatg atcctgcgtc tcaagagcgt ccggctcctt tctggctccc gagagaaaga tcgcaacctg cgtaggatca ccagactggt cctgggtgtg gtggcggtt tcgtctgtcg ctggactccc attcacatat tcatcctggt ggaggctctg gggagcacct cccacagcac agctgctctc tccagctatt acttctgcat cgcttaggc tatacaaca gtacccctgaa tcccatttc tacgcctttc ttgatgaaaa cttcaagcgg tgtttccggg acttctgctt tccactgaag atgaggatgg agcggcagag cactagcaga gtccgaaata cagttcagga tctgcttac ctgagggaca tcgatgggat gaataaacca gtatgactag tctgtggagt gcttctgtac ag	Homo sapiens
148	2783	Opioid Receptor, kappa 1 (OPRK1)	NP_000903.1	MESPIQIFRG EPGTCAPSA CLPNSSAWF PGWAEPDSNG SAGSEDAQLE PAHISPAIPV P IITAVYSVF VGLVGNLSV MFVIIRYTKM KTATNIYIFEN LALADALVTT TMPFQSTVYL MNSWPFQDVL CKIVISIDYV NMFTSIFTLT MMSVDRIYAV CHPVKALDFR TPLKAKIINI CIWLLSSVG ISAILVGCTK VREDVDVIEC SLQFPDDDSY WWDLFMKICV FIFAFVFPVL IIIVCYTIMI IRLKSVRLLS GSREKDRNLR RITRLVLVV AVFVVCWTPI HIFILVEALG STSHSTAALS SYFICIALGY TNSSLNPILY AFLDENFKRC FRDFCFPLKM RMERQSTSRV RNTVQDPAYL RDIDGMKPV	Homo sapiens
149	2964	Luteinizing	NM_000233	ggccgccccat gaagcagcgg ttctcggcgc tgcagctgct gaagctgctg ctgctgtctg A	Homo

Hormone/Chor
iogonadotrop
in Receptor

sapiens

agccgcgcgt gccacgagcg ctgcgcgagg cgctctgccc tgagccctgc aactgcgtgc
ccgacggcgc cctgcgctgc cccggcccca cggcggctct cactgacta tcaattgcct
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ataacagatc agaaatttaa aataaggggc ttttctctca ggtagttga aaaacacact

150 2964 Luteinizing NP_000224.1 Homo sapiens
Hormone/Chor
iogonadotrop
in Receptor

ctagagatgc actgttcaat tcggtacgca ctagccacat gtggctaaat taaaattaaa
taaatgaga aatgtagttt ctacgttga ctacgttca agttctcaat ggctacgtca
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MKQFSALQL LKLLLLQPP LPRALREALC PEPNCVDPG ALRCPGPTAG LTRLSLAYLP P
VKVIFSQAFR GLNEVTKIEI SQIDSLERIE ANAFDNLNL SEILIONTKN LRYIEPGAFI
NLPGLKYL SI CNTGIRKFPD VTKVFSSES FILEICDNLH ITTIPGNAFQ GMNESVTLK
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SKQCESTVRK VSNKTLYSSM LAESELGWD YEYGFCLPKT PRCAPEPDAF NPCEDIMGYD
FLRLIWLIN ILAIMGNMTV LFVLLTSRYK LTVPRFLMGN LSFADFCMGL YLLIASVDS
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RHAILIMLGG WLFSSLIAML PLVGVSNNYMK VSICFPMDVE TTLSQVYILT ILILNVVAFV
IICACYIKIY FAVRNPELMA TNKDTKIARK MAILIFTDFT CMAPISFFAI SAAFKVPLIT
VTNSKVLVL FYPINSCANP FLYAIFTKTF QRDFLLLSK FGCKRRRAEL YRRKDFSAYT

151 2976 Lysophosphat NM_001401 Homo sapiens
idic Acid
Receptor
Edg2

acggcgctg ggtctcac ctgtccgcgc cggacgggct ttgtggttgg gggcgcgctg A
gcgagtgcga gtagagagct gggtgcgcgc ttgtggcgctg ggcgcgggtg ggtggcgctg
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152	2976	Lysophosphat NP_001392.1 idic Acid Receptor Edg2	gcatgaacc ccatcattta ctctaccgc gacaaagaa tgagcgccac ctttaggcag atcctctgct gccagcgag tgagaacccc accgcccac cagaaggctc agaccgctog gcttcctccc tcaaccacac catcttggtc ggagttcac gcaatgacca ctctgtggtt tagaaaggaa actgagatga ggaaccagcc gtcctctctt ggaggataaa cagcctcccc ctaccaatt gccaggcaa ggtgggtgt gagagagag aaaagtaaac tcatgtactt aaacactaac caatgacagt atttgttctt ggacccacac agacttgata tatattgaaa attagcttat gtgacaaccc tcatcttgat ccccatccct tctgaaagta ggaagtggga gctcttgcaa tggaattcaa gaacagactc tggagtgtcc atttagacta cactaactag actttbaaaa gatttttgtt ggtttgtgac aagtcagaat aaattctggc tagttgaatc cacaacttca tttatataca ggttccctt ttttattttt aaaggatacg tttcacttaa taaacacgtt tatgcctatc agcatgtttg tgatggatga gactatggac tgctttttaa ctaccataat tccatttttt cccttacata ggaacactgt aagttggaat tatcttttgt ttagaaagca tgcattgaat gtatgtatgc agtatgcctt acttaaaaag attaaaagga tactaatgtt aaatcttcta ggaatagaa cctagacttc aaagccagta tttgttttagg tcatgaagca aacaatgctc taatcacat attaactgtt taattaaaat gttgtaacaa gtataaaca gggaaatgaa gtttattacc aaagtgtat gtattccaaa aaagtcatag aagatgaagc actataatat tgttcccata tatttaaaat acccaagtac attctaatta ccagtatatc agaggaaaat tttcgtagtc tttgtaaaat aatatactca tcatagaaaa ctgaaaaat gcagaaatgt ataaaaagc aaaaatgatt actgataata tcacaaccca gaagtaacca cctttaaaaa gcaaccccca tgtatgccta tatgtgtatt ctatactttt tttacataat tggagtcata ctgtaaacag ttttataagt agatcttttt cattgcaaaa ttgccacatt tctttatgac attaaaaatt ttacaaaaac ataattttaa tggctatatt atattccatt taatggatgc aactcagttt atttaaccat tcccatgttg ttaactattt aggttgttct taattttcat tattataaag ttgcagaaat ttggtgtg	Homo sapiens
153	3038	G Protein- Coupled Receptor MRG	IFIMLANLIV MVAIYVNRFF EPQCFYNESI AFFYNRSGKH LATEWNTVSK LVMGLGITVC P WLLRQGLIDT SLTASVANLL AIAIERHITV FRMLHTRMS NRRVVVVIV IWTMAIVMGA IPSVGNVIC DIENCSNMAP LYSDSYLVFV AIFNLVTFV MVVLYAHIFG YVRQTRMS RHSSGPRNR DTMSLLKTV VIVLGAFFIC WTPGLVLLLL DVCCPQCDVL AYEKFFLLLA EFNSAMNP II YSYRDKEMSA TFRQILCCQR SENPTGPTE SDRSASSLNH TILAGVHSND HSV ttttgtattt gttgcaccc t aagtcgtgtc atttccttct cctcagctga catttgagc A atagcagtcg atgatgcca cacagacact gcctgagact cagccccctg gagaaacgca gatttcctta ttttccaggt caagtcctgc cagccataga aaggacttct ttggtgcca ctgcttgaa atgcctgctt tggaaatctc agtgcctctt tgtacctgtc tgagccccag gaaatgccat actgtggcac tgcgtcatcc tgcattggcta cccaaggatg cccaggaactg gtttgaaaga gatgagacat ggccaggtgc gtggctcacg cttgtaatcc agcactttgg gaggtcaagg cagtggatca caaggtcaga gttgagacca gccaggccaa tatggtgaaa accccatctc tactaaaaat acaaaaaatt agccgggcaa tgggtgtggg tgcctgtagt tccagctagt caggaggccg aggcaggaga atcgcttgaa cctggaaggt ggaggttcca gtgagctgag atcgcgcccac tgcactccag cctgggtgac agagtggagac tccaactcaa	Homo sapiens

154	3038	G Protein- Coupled Receptor MRG	AAB21255.1	<p> aaaaaaaaa aaaaagaga tgagacacta gtgtctcatg agtagaacct ggaccagaca caaatctcca ttcccaatgt ttagtgcttc attagtcccc aacaacaaga tattgggtct atgtgggtag gctggggga tctgtacaa caggagatgt gttaggggag ggagaacaga tcacaaattc atggagagct attgcagag cagatactcc catccactct gatattgagt taatgttcag ctgttcttaa aaagcacacc caacattggg tgttctattc cagctcagga aatgttagag gcaaggggtc tgagccaga ggaacacct agatggacca ctgctcctga ctgtgatgtt gtggccact caggtccag caccctcagg tctgggggaa aatttgctgg ttcagccaga gggctggatg gacagtgtt gctgagtcac agatatctct ctcatgtagc cttgtctcc acagtgtga ccaggaggca cagaacccaa acctgtatc tcagctctgt ggcgtctttc tcaaaatga gacgaatgaa accatacata tgcagatgag catggcagtg ggacagcagg cctgtccctt gaatacatt gcccctcagg ctgtgctggt ctccctctgt gggtctttat tgaatggcac tgtctctgg ctgcttggct gtggggccac gaatccctac atggtatata tctccactt ggtcgtgct gactgatct atctttgctg ctcggcagtg gggtctttac agtgactct gctaaattat catggagtcg tgttttttat ccctgatttc ctggccatat tgtctccctt ctcccttgag gtgtgctct gtctcctggt ggccatcagc acagagcggg gtgtgtgtgt cctcttccc atctggtaca gatgccaccg cccaaatatc acatctaag ttgtctgac cctcatctgg ggcctgctt tttgcatcaa catagtaaaa tcaactttcc taacttactg gaaacatgta aaggcatgtg tcataattct aaagctttct gggctcttcc atgctatctt ttcacttgg atgtgtgtgt cgagtctgac tctactcatt agattcctgt gctgtctcca gcagcaaaag gccaccaggg tctatgcgt ggtgcagatc tcggccccc ttgtctact ctgggcccta cccctgagcg tggcaccct gataacagat ttcaaaatgt ttgtcaccac ctctattta atttcttgt tctcattat aaacagcagc gccaaacctc tcatttattt ctttgtggg agcctcagaa agaaaaggct gaaggaatct ctcagagtga ttctcaacg ggcgttagca gataagccag aggtggggag gaacaaaaag gcagctggca tcgacccaat ggagcaacca cactctactc agcatgtgga gaaccttctt cccaggagc acagggtcga tgtggaaca taatttccca catctgagct ggggaattgt acacatagta accagcctg ttctgcatca taaggctgct gcatacaatc aatgctttat tctaataaag ttcagctttc atggactttc aaacacacc ctgctgttt gtggttgaa gagacattaa ctctcttct aggcagtaag cccagtgtga atgtgctcca gtcccaacga tgaggggat gggaccaggt gagactttcc tggtaacctg ggaatccaaa taagaccat acaaaggcat gaattc </p>	Homo sapiens
155	3057	Melanocortin 3 Receptor (MC3R)	NM_019888	<p> atgagcatcc aaaagaagta tctggaggga gattttgtct ttcctgtgag cagcagcagc A ttcctacgga ccctgctgga gcccagctc ggatcagccc ttctgacagc aatgaatgct tcgtgctgccc tgcctctgt tgcagcaaca ctgcctaagt gctcggagca cctccaaagcc </p>	Homo sapiens

156	3057	Melanocortin NP_063941.1 3 Receptor (MC3R)	MSIQKKYLEG DFVFPVSSSS FLRTLLEPQL GSALLTAMNA SCCLPSVQPT LPNGSEHLQA P PFFSNQSSSA FCEQVFTRPE IFLSLGIVSL LENILVILAV VRGNLHSPM YFFLCSLAVA DMLVSVSNAL ETIMIAIVHS DYLTFEDQFI QHMDNIFDSM ICISLVASIC NLLAIAVDRY VTIFYALRYH SIMTVRKALT LIVAIWVCCG VCGMIVFVYS ESKMIVICLI TMFFAMMLLM GTLVYHMFLE ARLHVKRIRAA LPPADGVAPO QHSCMKGAVT ITILGVFIF CWAPFFLHLV LIITCPTNPY CICYTAHENT YLVLMCNVS IDPLIYAFRS IELRNTFREI LCGCNGMNLG	Homo sapiens
157	3058	Melanocortin NM_005912 4 Receptor (MC4R)	atggtgaact ccaccacag tgggatgac acttctctgc acctctgga cgcagcagt A tacagactgc acagcaatgc cagtgaatcc cttggaaaag gctactctga tggagggtgc tacgagcaac tttttgtctc tcttgaggtg tttgtgactc tgggtgtcat cagcttgttg gagaatatct tagtgattgt ggcaatagcc aagaacaaga atctgcattc acccatgtac tttttcatct gcagcttggc tgtggtgat atgctggtga gcgtttcaaa tggatcagaa accattatca tcacctatt aacagataga gatacggatg cacagagttt cacagtgaat attgataatg tcattgactc ggtgatctgt agctccttgc ttgcatccat ttgcagcctg ctttcaattg cagtggacag gtactttact atcttctatg ctctccagta ccataacatt atgacagtta agcgggttgg gatcatcata agttgtatct gggcagcttg cacggtttca ggcattttgt tcatcattta ctcatagatg agtgcgtca tcatctgcct catcaccatg ttcttcacca tgcctgctct catggcttct ctctatgtcc acatgttctt gatggccagg cttcacatta agaggattgc tgtcctccc ggcaactggc ccatacggca aggtgccaat atgaaggagg cgattacatt gaccatctct attggtgctg ttgttgtctg ctgggccccca ttcttccctc acttaattatt ctacatctct tgtcctcaga atccatattg tgtgtgcttc atgtctcact ttaacttgta tctcatactg atcatgtgta attcaatcat cgateccttg atttatgcac tccggagtca agaactgagg aaaaacctca aagagatcat ctgttgcctat ccccctggag gcctttgtga cttgtctagc agatattaa	Homo sapiens
158	3058	Melanocortin NP_005903.1 4 Receptor	ENILVIVAIA KNKNLHSPMY FFICSLAVAD MLVSVSNGSE TIIITLLNST DTDACSFTVN MVNSTHRGMH TSLHLNRRSS YRLHSNASES LGKGYSDGGC YEQLFVSPEV FVTLGVISLL P	Homo sapiens

Accession	Gene	Protein	Species	Sequence
159	Melanocortin 5 Receptor (MC5R)	3059	Homo sapiens	<p>IDNVDSVIC SLLASITCSL LSIADVRYFT IFYALQYHNI MTKVRVGIII SCIWAACTVS GILFIIYSDS SAVIICLITM FFTMLALMAS LYVHFMFLMAR LHIKRIAVLP GTGAIRQGAN MKGAITITIL IGVFVVCWAP FFLHLIFYIS CPQNPYCVCF MSHENLYLIL IMCNSIIDPL IYALRSQELR KTFKEIICC PLGGLDLSS RY</p> <p>atgaattctc catttcaact gcattttcttg gatctcaacc tgaatgccac agaggggcaac A ctttcaggag ccaattgtcaa aaacaagtct tcaccatgtg aagacatggg cattgctgtg gaggtgttcc tcaactgtgg tgtcatcagc ctcttgaga acatttgggt catagggggc atagtgaaga acaaaaacct gcaptcccc atgtacttct tctgtgtcag cctggcagtg 'gcgacatgc tggtagcat gtccagtgc tgggagacca tcaccatcta cctactcaac aacaagcacc tagtgatagc agagcccttt gtgcgcaca ttgacaatgt gttgactcc atgatcgca ttctcgtggt ggcattccatg tgcagcttac tggccattgc agtggatagg tagtcaacca tcttttaagc cctgcgtac caccatca tcagtcgag gcctcaggg gccatcatcg ccggcatctg ggctttctgc accggtgtcg gcatgtgctt catectgtac tcagaatcca cctacgtcat cctgtgctc atctcatgt tcttcgtat gctgttccctc ctgggtctc tgtacataca catgttctc ctggcgcgga ctacgtcaa gcgatctcg gctctgccc gggccagctc tgcggcgag aggacagca tgcagggcg ggtcacccgtc accatgtgc tggcggtgtt taccgtgtc tgggccttca tcttcttca tctacttta atgctttctt gccctcagaa cctctactgc tctgccttca tgtctactt caatatgtac ctcatactca tcatgtgtaa ttccgtgatg gaccttca tatatgcctt ccgcagccaa gagatgcgga agacctttaa ggagattatt tgcgtgcgtg gtttcaggat cgcctgcacg tttccagaa gggattaa</p>
160	Melanocortin 5 Receptor (MC5R)	3059	Homo sapiens	<p>MNSSFHLHFL DLNLNATEGN LSGPNVKNS SPCEDMGTAV EVFLTLGVIS LLENILVIGA P IVKNKNLHSP MYFFVCSLAV ADMLVSMSSA WETITTYLLN NKHLVIADAF VRHIDNVFDS MICSIVVASM CSLLAIAVDR YVTIFYALRY HHIMTARRSG AIIAGIWAFC TGCIVFILI SESTYVILCL ISMFFAMLEFL IVSLYIHMFL LARTHVKRIA ALPGASSARQ RTSMQGAVTV TMLLGVFTVC WAPFFELHLTL MLSCPQLNYC SRFMSHENMY LILIMCNSVM DPLIYAFRSQ EMRKTFKEII CCRGFRIACS FPRRD</p> <p>ggagaggggtg tgaaggcaga tctgggggtg ccagatcgga aggagggcagg catggggggac A acccaaaggcc ccctggcagc accatgaact aagcaggaca cctggagggg aagaactgtg gggacctgga ggcctccaac gactccttc tgcttcttg acaggactat ggctgtgcag ggatcccaaga gaagacttct gggctcctc aactccaacc ccacagccat ccccgagctg ggctggctg ccaaccagac aggagcccg tgcctggag tgcctatctc tgacgggctc ttcctcagcc tggggctggt gagcttggtg gagaacgcgc tgggtgtggc caccatcgcc aagaaccgga acctgcact acctatgac tgttctatct gctgctggc cttgtoggag ctgctggtga gcgggagcaa cgtgctggag acggccgtca tctctctgct ggagggcgggt gcactgggtg ccgggctgc ggtgctgcag cagctggaca atgtcatgga cgtgatcacc tgcagctcca tgcgtccag cctctgctc ctgggcgaca tcgcgtgga cgcctacatc tccatcttct acgcactgc ctaccacagc atcgtgacc tgcgcgggc ggcgaagcc gttgcggcca tctgggtggc cagtgctgc tctcagcgc tcttcctgc ctaactagac cacgtggccg tctgtctgt cctcgtggtc ttcttctgg ctatgctgt gctcatggcc gtgctgtacg tccacatgct ggcccgggccc tgcagcagc ccagggcat cgcgggctc</p>
161	Melanocortin 1 Receptor (MC1R)	3061	Homo sapiens	<p>NM_002386</p> <p>ggagaggggtg tgaaggcaga tctgggggtg ccagatcgga aggagggcagg catggggggac A acccaaaggcc ccctggcagc accatgaact aagcaggaca cctggagggg aagaactgtg gggacctgga ggcctccaac gactccttc tgcttcttg acaggactat ggctgtgcag ggatcccaaga gaagacttct gggctcctc aactccaacc ccacagccat ccccgagctg ggctggctg ccaaccagac aggagcccg tgcctggag tgcctatctc tgacgggctc ttcctcagcc tggggctggt gagcttggtg gagaacgcgc tgggtgtggc caccatcgcc aagaaccgga acctgcact acctatgac tgttctatct gctgctggc cttgtoggag ctgctggtga gcgggagcaa cgtgctggag acggccgtca tctctctgct ggagggcgggt gcactgggtg ccgggctgc ggtgctgcag cagctggaca atgtcatgga cgtgatcacc tgcagctcca tgcgtccag cctctgctc ctgggcgaca tcgcgtgga cgcctacatc tccatcttct acgcactgc ctaccacagc atcgtgacc tgcgcgggc ggcgaagcc gttgcggcca tctgggtggc cagtgctgc tctcagcgc tcttcctgc ctaactagac cacgtggccg tctgtctgt cctcgtggtc ttcttctgg ctatgctgt gctcatggcc gtgctgtacg tccacatgct ggcccgggccc tgcagcagc ccagggcat cgcgggctc</p>

162	3061	Melanocortin 1 Receptor (MC1R)	NP_002377.2	MAVQGSQRRRL LGSLSNSTPTA IPQLGLAANQ TGARCLEVSI SDGLFISLGL VSLVENALVW P ATIAKNRNLIH SPMYCFICCL ALSDLLVSGS NVLETAVILL LEAGALVARA AVLQQLDNVI DVITCSSMLS SLCFLGAIIV DRYISIFYAL RYHSIVTLPR ARQAVAAIIV ASVVFSTLFI AYYDHVAVLL CLVWFFFLAML VLMVLYVHM LARACQHAQG IARLHKRQRP VHQGFGLKGA VTLLILGIF FLCWGPFLLH LTLVLCPPEH PTCGCIFKNF NLFLALIICN AIIDPLIYAF HSQELRRLTK EVLTCSW	cggcgagc cttaacaagt ggtcgggcgg gggagcagg ggcgagcggc tgcccaacgc ctccagaccc gtgctccgcg gggacggcg gcggccctcg tggtggcgt cgcctcagc ctgctctc atcttcacca tctgtgtgga cactctgggc aacctctgg tcactctgtc ggtgtatcgg aacaagaagc tcagggaacgc aggaacatc tttgtgtga gcttagcgg ggcagacctg gtggtggcca tttatccgta cccgttggtg ctgatgtcga tatttaacaa cgggtgggaa ctgggctatc tgcactgcca agtcagtggg ttcctgatgg gctgagcgt cctcggctcc atatccaaca tcacggcat cgccatcaac cgctactgct acatctgcca cagttccaag tacgacaaac tgtacagcag caagaactcc ctctgctacg tgctctctcat atggtcctcg acgctggcgg ccgtcctgcc caacctcgt gcagggaact tccagtacga cccaggatc tactcgtgca ccttcgcca gtcgtcagc tccgctaca ccatcgccgt ggtggttttc cacttctcgc tccccatgat catagtcatc ttctgttacc tgagaatatg gatactgggt ctccaggtca gacagagggt gaaacctgac cgcaaaccca aactgaaacc acaggacttc aggaattttg tcaccatgtt tgtggttttt gtcctctttg ccatttgctg ggctcctctg aacttcattg ggctggcgt ggcctctgac cccgccagca tgggtccctag gatccacag tggtgtttg tgccagatta ctacatggcg tatttcaaca gctgcctcaa tgcctattata tacgggctac tgaaccaaaa tttcagggaag gaatacagga gaattatagt ctcgctctgt acagccaggg tgttctttgt ggacagctct aacgacgtgg ccgatatgggt taaatggaaa ccgtctccac tgatgaccaa caataatgta gtaaaggtgg actccgttta aaaaagcacc acgttcgggg tgagatggac acgtcgcca aggcctcgtc cttgacagat gtctgggaaa gcagagtgg ggaggaaact tccaaacttt acctggctgc tgccatagtt tctgagctaa cgtgctgtca gcattataaa cccctccaat ctactagtca agagaagtac agaattgtatg gagagtaca tgttaactga ggaatgcggt tcagggtcgg ggtgagagta agctgctgaa tgcatccagg ggaaggagt tgcaaacctt tattgtaaat gagtgccaca aaaggggtaa ttgcattctt cttcactttt tgaagacttc tagcagaaaa atgaaagaga attttatta taaatgagca aatggaacaa ttttttttct gtaaatggaa caacaatga aagtggggtg agtgctctct attacagagg gaaaggctga acataaatca gttaatggct catcaacaat	Homo sapiens
163	3079	Melatonin Receptor type 1a	NM_005958	cggcgagc cttaacaagt ggtcgggcgg gggagcagg ggcgagcggc tgcccaacgc ctccagaccc gtgctccgcg gggacggcg gcggccctcg tggtggcgt cgcctcagc ctgctctc atcttcacca tctgtgtgga cactctgggc aacctctgg tcactctgtc ggtgtatcgg aacaagaagc tcagggaacgc aggaacatc tttgtgtga gcttagcgg ggcagacctg gtggtggcca tttatccgta cccgttggtg ctgatgtcga tatttaacaa cgggtgggaa ctgggctatc tgcactgcca agtcagtggg ttcctgatgg gctgagcgt cctcggctcc atatccaaca tcacggcat cgccatcaac cgctactgct acatctgcca cagttccaag tacgacaaac tgtacagcag caagaactcc ctctgctacg tgctctctcat atggtcctcg acgctggcgg ccgtcctgcc caacctcgt gcagggaact tccagtacga cccaggatc tactcgtgca ccttcgcca gtcgtcagc tccgctaca ccatcgccgt ggtggttttc cacttctcgc tccccatgat catagtcatc ttctgttacc tgagaatatg gatactgggt ctccaggtca gacagagggt gaaacctgac cgcaaaccca aactgaaacc acaggacttc aggaattttg tcaccatgtt tgtggttttt gtcctctttg ccatttgctg ggctcctctg aacttcattg ggctggcgt ggcctctgac cccgccagca tgggtccctag gatccacag tggtgtttg tgccagatta ctacatggcg tatttcaaca gctgcctcaa tgcctattata tacgggctac tgaaccaaaa tttcagggaag gaatacagga gaattatagt ctcgctctgt acagccaggg tgttctttgt ggacagctct aacgacgtgg ccgatatgggt taaatggaaa ccgtctccac tgatgaccaa caataatgta gtaaaggtgg actccgttta aaaaagcacc acgttcgggg tgagatggac acgtcgcca aggcctcgtc cttgacagat gtctgggaaa gcagagtgg ggaggaaact tccaaacttt acctggctgc tgccatagtt tctgagctaa cgtgctgtca gcattataaa cccctccaat ctactagtca agagaagtac agaattgtatg gagagtaca tgttaactga ggaatgcggt tcagggtcgg ggtgagagta agctgctgaa tgcatccagg ggaaggagt tgcaaacctt tattgtaaat gagtgccaca aaaggggtaa ttgcattctt cttcactttt tgaagacttc tagcagaaaa atgaaagaga attttatta taaatgagca aatggaacaa ttttttttct gtaaatggaa caacaatga aagtggggtg agtgctctct attacagagg gaaaggctga acataaatca gttaatggct catcaacaat	Homo sapiens	

164	3079	Melatonin Receptor type 1a	NP_005949.1	<p> cacaaccaca accaacacca caaacctttc agctggcaga gttagcattg gtagctata ctcatggtca taaatgtttg ccgctctata ttacaagttg tgcataaac cagataaaga actaaatcat aggccgggca cagtcgctca cacctgtaac ctacgacctt tgggaggtg aggtgggcag atcaactgag ttacaggagt ttgagaccac ctggggcaac atgatgaaat cccatctcta aaaaaatata aaaaattatc tgggcatggt gacacgcct gtaatccccag ctactcagga gactgagtta ggagaatccc ttgagcccca gaggcagagg ttgtggtgag ccgagatcgc gccagtacat tccaacttag gctacagaat gagactctgc ccaaaaaaa aaaaaaa </p>	Homo sapiens
165	3080	Melatonin Receptor type 1b	NM_005959	<p> MQNGSALPN ASQVLRGDG ARPSWLASAL ACVLIFTIV DILGNLLVIL SVYRNKKLRN P AGNIFVLSLA VADLVVAIYP YPLVMSIFN NGWNLGYLHC QVSGFLMGLS VIGSIFNITG IAINRYCYIC HSLKYDKLYS SKNSLCYVLL IWLTLAAVL PNLRACTLQY DPRIYSCCTFA QSVSSAYTIA VVVFHFLVPM IIVIFCYLRI WILVLQVRQR VKPDRKPKLK PQDFRNFTVM FVVFLEAIC WAPLNFIGLA VASDPASMVP RIPEWLFVAS YMYAFNSCL NAIYGLLNQ NFRKEYRRII VSLCTARVFF VDSSNDVADR VKWKPSPIMT NNNVVVDSV </p>	Homo sapiens

166	3080	Melatonin Receptor type 1b	NP_005950.1	<p>ttgtaacta caaggcctc agtgaggga ggtgcagag gc</p> <p>VILSVLRNRK LRNAGNLFV SLALADLVVA FYYPYLLIVA IFYDGMALGE EHCKASAFVM</p> <p>GLSVIGSVFN ITALAINRYC YICHSMAYHR IYRRWHTPLH ICLIWLTWV ALLPNFFVGS</p> <p>LEYDPRIYSC TFIQTASTQY TAAVVVIHFL LPIAVVSFCY LRIWLVLOA RRAKAPESRL</p> <p>CLKPSDLRSF LTMFVVVFIF AICWAPLNCL GLAVAINPQE MAQPIPEGLF VTSYLLLAYFN</p> <p>SCLNALIVYGL LNQNFRREYK RILLALWNPR HCIQDASKGS HAEGLSQSPAP PIIGVQHQQAD</p> <p>AL</p>	Homo sapiens
167	3081	Melatonin- Related Receptor	NM_004224	<p>tgtttctgt ctggacctg ctgctgatcc tgagctgctt gggagatctt aacgatcccc A</p> <p>aggagcaaca tggggccac cctagcgggtt cccacccctt atggctgtat tggctgtaag</p> <p>ctaccacagc cagaataccc accggctcta atcatcttta tgtctgctg gatggttattc</p> <p>accatcgttg tagacctaat cggcaactcc atggtcattt tggctgtgac gaagaacaag</p> <p>aagtcocgga attctggcaa catctctgtg gtcagtctct ctgtggccga tatgtctgtg</p> <p>gccatctacc cataccttt gatctgcat gccatgtcca ttgggggctg gcatctgagc</p> <p>cagttacagt gccagatggt cgggttctac acagggctga gtgtggctgg ctccatcttc</p> <p>aacatcgtgg caatcgtat caaccgttac tgctacatct gccacagcct ccagtagcaa</p> <p>cggatcttca gtgtgcgcaa tacctgcatc tacctggtea tcacctggat catgacctc</p> <p>ctggctgtcc tgcccaacat gtacattggc accatcgagt acgatcctcg cacctacacc</p> <p>tgcatcttca actatctgaa caaccctgtc ttcatctgta catcgtctg catccacttc</p> <p>gtctccctc tctctatcgt gggtttctgc tactgtgaga tctggaccaa agtctgtggc</p> <p>gccctgacc ctgcaggga gaatcctgac aaccaacttg ctgaggttcg caattttcta</p> <p>accatgttg tgatcttct cctctttgca gtgtgctggt gccctatcaa cgtgctcact</p> <p>gtcttggtgg ctgtcagtc gaaggagatg gcaggcaaga tcccaactg gctttatctt</p> <p>gcagcctact tcatagccta ctccaacagc tgcctcaacg ctgtgatcta cgggctcctc</p> <p>aatgagaatt tccgaagaga atactggacc atcttccatg ctatgggca ccctatcata</p> <p>ttcttccctg gctcatcag tgatatctgt gagatgcagg aggcccgtag cctggcccg</p> <p>gccgtgccc atgtctcgga ccaagctcgt gaacaagacc gtgcccagtc ctgtcctgct</p> <p>gtggaggaaa ccccgatgaa tgtccggaat gtccattac ctggtgatgc tgcagctggc</p> <p>caccccgacc gtgcctctgg ccaccctaag cccattcca gatcctcctc tgcctatcgc</p> <p>aaatctgct ctaccacca caagtctgtc tttagccact ccaagggtgc ctctggtcac</p> <p>ctcaagcctg tctctggcca ctccaagcct gcctctggtc acccaagtc tgcactgtc</p> <p>taccctaagc ctgcctctgt ccatttcaag ggtgactctg tccatttcaa ggtgactct</p> <p>gtccatttca agcctgactc tgttcatttc aagcctgctt ccagcaaccc caagcccatc</p> <p>actggccacc atgtctctgc tggcagccac tccaagtctg ctctcagtc tgcaccagc</p> <p>cacccaaac ccatacagc agctaccagc catgtcagc ccaccactgc tgactatccc</p> <p>aagcctgcca ctaccagcca ccctaagccc cgtgctgctg acaaccctga gctctctgcc</p> <p>tcccatgcc ccgagatccc tgccattgcc caccctgtgt ctgacgacag tgacctccct</p> <p>gagtcggcct ctagccctgc cgtggggccc accaagcctg ctgcccagca gctggagctc</p> <p>gacacacag ctgaccttcc tgacctact gtagtacta ccagtaccaa tgattaccat</p> <p>gagtcctgg ttgttgatgt tgaagatgat cctgatgaaa tggctgtgtg aaaaatgctc</p> <p>tcgtagggtg ccaggcagt</p>	Homo sapiens

168	3081	Melatonin- Related Receptor	NP_004215.1	MGPTLAVPTP YGCGCKLKPQ PEYPPALIIF MFCAMVITIV VDLIGNSMVI LAVTKNKKLR P NSGNIFVWSL SVADMLVAIY PYPLMLHAMS IGGWDLSQLQ QMVGITGL SVVGSIFNIV ATAINRYCYI CHSLQYERIF SVRNTCIYLV ITWIMTVLAV LPNMVIGTIE YDPRTYTCIF NYLNNPVFTV TIVCIHFVLP LLVGFECYVR IWKVLAARD PAGQPNQNL AEVRNFTME VIFLLFAVCW CPINVLTVLV AVSPKEMAGK IPNWLIALY FIAYFNCLN AVIYGLNEN FRREYWTIEH AMRHLIFFP GLISDIREMQ EARLILAPARA HARDQAREQD RAHACPAVEE TPMNVNRNVL PGDAAGHPD RASGHPKPHS RSSAYRKSA STHKSVFESH SKAASGHLKP VSGHSKPASG HPKSATVYPK PASVHFKGDS VHFKGDSVHF KPDSVHFKPA SSNPKPITGH HVSAGSHSKS AFSAAATSHPK PIKPATSHAE PTTADYKPA TTSHPKPAAN DNPELSASHC PEIPAIAHPV SDDSDLPESA SSPAAGPTKP AASQLESMTI ADLPDPTVVT TSTNDYHDVV VVDVEDDPDE MAV	Homo sapiens
169	3093	Metabotropic Glutamate Receptor 1	NM_000838	gaattccctt acaaacgcct ccagcttgta gaggcggtcg tggaggaccc agaggaggag A acgaaggga agaggcggt ggtggaggag gcaaaagcct tggacgacca ttgttggcga ggggcaccac tccgggagag ggcgcgctgg gcgtcttggg ggtgcgcgc gggagccctgc agcgggacca cgggtgggaa gggcgtggca ggcgttggac ctcgtctca ccaccatggt cgggtccctt ttgtttttt tcccagcgat ctttttggag gtgtcccttc tccccagaag ccccggcagg aaagtgttc tggcaggagc gtcgtctcag cgctcggtgg ccagaatgga cggagatgc atcattggag ccctctctc agtccatcac cagcctccgg ccgagaaaagt gccgagagg aagtgtggg agatcaggga gcagtatggc atccagagg tggaggccat gtccacacg ttggataaga tcaacgcgga ccggtctctc ctgcccaca tcaccctggg cagttagatc cgggactcct gctggcactc ttccgtgggt ctggaacaga gcatttgagt cattagggac tctctgatt ccattcgaga tgagaaggat gggatcaacc ggtgtctgcc tgacggccag tccctcccc caggcaggac taagaagccc attgcgggag tgatcgttc cggctccagc tctgtagcca ttcaagtga gaacctgtc cagctcttcg acatccccc gacgcttat tcagccacaa gcacgacat gactgacaaa actttgtaca aatacttct gagggtgtc cctctgaca ctttgaggc agggccatg cttgacatag tcaaacgtta caattggacc tatgtctctg cagtccacac ggaagggaat tatggggaga gcggaatgga cgcttcaaa gagctggctg ccagggaagg cctctgtatc gccattctg acaaaatcta cagcaacgct ggggagaaga gctttgaccg actcttgcc aaactccgag agaggcttc caaggctaga gtgtgtgtct gcttctgtga aggcattgaca gtgcgaggac tcctgagcgc catgcggcgc cttggcgctg tggcgagtt ctcactcat ggaagtgtg gatgggcaga cagagatgaa gtcatggaag gttatgagt ggaagccaac ggggaaatca cgataaagct gcagtcctca gaggtcaggt catttgatga ttattctctg aaactgaggc tggacactaa cacagggaat ccttggtctc ctgagttctg gcaacatcgg tccagtgcc gccttccagg acaccttctg gaaaatccca actttaacg aatctgcaca ggcaatgaaa ccttagaaga aaactatgct caggacagta agatggggtt tgtcatcaat gccatctatg ccatggcaca tgggtgcag aacatgcacc atgcccctg ccctggccac gtggccctc gcgatgccat gaagccatc gacggcagca agctgtctga cttctctc agtccctcat tcattggagt atctggagag gaggtgtgtt ttgatgagaa aggagacgt cctggaaggt atgatcat gaatctgcag tacactgaag ctaatcgcta tgactatgt cacttgga cctggcatga aggagtgtc aacattgat attacaaaat ccagatggaac agagtggag tgggtcggtc	Homo sapiens

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 taaatatttt ctattatt

Glutamate Receptor 1	3094	Metabotropic NM_000839 Glutamate Receptor 2	171	sapiens	Homo sapiens
KVPERKCGEI	REQYGIQORVE	AMFHTLDKIN	ADPVLLPNIT	LGSEIRDSCW	HSSVALEQSI
EFIRDSLISI	RDEKDGINRC	LPDQSLPPG	RTKKPIAGVI	PGSSSSVAIQ	VQNLLQLFDI
PQIAYSATSI	DLSDKTLKY	FLRVPSDTL	QARAMLDIVK	RYNWTYVSAY	HTEGNYGESG
MDAFKELAAQ	EGLCIAHSDK	IYSNAGEKSF	DRLLRKIRER	LPKARVVVCF	CEGMTVRGLL
SAMRRLGVG	EFSLIGSDGW	ADRDEVIEGY	EVEANGGITI	LQSPSEVRSF	DDYFLKLRLD
TNTRNPWPE	FWQHRFCRL	PGHLEPNF	KRICTGNESL	EENYVQDSKM	GFVINAIYAM
AHGLQNMHHA	LCPGHVGLCD	AMKPIDGSKL	LDFLIKSFI	GVSGEVWFD	EKGDAPEGYD
IMNLQYTEAN	RYDYVHVGTW	HEGVLNIDDY	KIQMNKSGV	RSVCSEPCLK	GQIKAVIRKGE
VSCCWICTAC	KENEYVQDEF	TCACDLGWM	PNADLTGCEP	IPVRYLENSN	IESIIAIAFS
CLGILVTLFV	TLIFVLYRDT	PVKSSREL	CYIILAGIFL	GYVCPFTLIA	KPTTSCYLO
RLLVGLSSAM	CYSALVTKTN	RIARILAGSK	KKICTRKPRF	MSAWAQVILIA	SILISVQLTL
VVTLIINEPP	MPILSYPSIK	EYLLICNTSN	LGWVAPLGN	GLLIMSCTYY	AFKTRNVNPN
FNEAKYIAFT	MYTTCIIWLA	FVPIYFGSNY	KIITTCFAVS	LSVTVALGCM	FTPKMYIIIA
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172	3094	Metabotropic NP_000830.1 Glutamate Receptor 2	aggtcgctt tgaccgctt ggtgatgta ttggcggta caacatctt acatatctg gtcaggcag tggcgctat cgtaccaga aggtgggta ctggcagaa ggttgactc tggacaccag cctcatcca tgggctcac cgtcagcgg cccctggcc gcctctgct gcagtggcc ctgctccag aatgagtgga agagtgtga gccggcgaa gtctgctgt ggctctgcat tccgtgccag ccctatgagt accgattgga cgaattcact tgcgtgatt gtggcctggg tctactggcc aatgcagcc tggcgtgctg cttcgaactg cccaggagt acatccgtg gggcgatgc tgggcttgg gacctgtac catgcctgc ctggtgccc tggccacct gtttgtctg ggtgtcttg tgcggcaca tgccacaca gtgtcaagg cctcaggtc ggagctctg tacatctgc tgggtgtgt cttcctctg tactgcatg ccttcattt catgccaag ccatacagg cagtgtgtac cttacgggt cttgggttg gcactgctt ctctgtctg tactcagcc tgcacaca gaccaaccg attgcacga tcttcggtg ggcggggag ggtgcccag gccacgct catcagctt gcctcacagg tggccatct cctggcact atctgggag agctgctcat cgtggtgctg tggctggtg tggagccacc gggcacagg aaggagacg ccccgaaag cgtggtgctg gtgacactg gctgcaacca ccgcatgca agtatgttg gctcgtggc ctacaatgt cctcctatg cgctctgac gcttatgct tcaatactt gcaagtggc cgaatactt aacgaggcca agttcatgg cttcaccatg tacaccact gcatcatctg gctggcattg ttgcccatt tctatgtcac ctccagtac taccgggtac agaccaccac catgtgctg tcagtcagcc tcagcggctc cgtggtgctt ggtgctctt ttgcggcca gctgcacatc atcctcttc agccgcagaa gaacgtggt agccaccgg caccaccag cgtcttggc agtctgctg ccagggccag ctccagctt ggcgaagg gctgctcca gttgtcccc actgtttgca atggcgtga ggtggtggc tgcacaagt catgctttg a	Homo sapiens
173	3095	Metabotropic NM_000840 Glutamate Receptor 3	MGSLALLAL LPLWGAABG PAKKVLTEG DLVLGLFPV HQKGPAEDC GPVNEHRGIQ P RLEAMLFALD RINRDPHLLP GVRLGAHILD SCCKDTHALE QALDFVRASL SRGADGSRHI CPDGSYATHG DAPTAITGVI GGSYSVDSIQ FFNWTYVSTE ASEGDTGETG IEAFELEARA RNICVATSEK VGRAMSRAAF EGVVRLIQK PSARVAVLFT RSEDARELLA ASQRLNASFT WVASDWGAL ESVAGSEGA AEGAITIELA SYPISDFASY FQSLDPWNN RNPWFREFWE QRFRCSFRQR DCAHSLRAV PFEQESKINF VNAVYAMAH ALNHMRALC PNTRLCDAM RPVNGRRLYK DFVLNVKEDA PFRPADTHNE VRFDREFGDI GRYNIFTYLR AGSGRYRYQK VGYWAEGLTL DTSLLPWASP SAGPLAASRC SEPCLQNEVK SVQPEVCCW LCIPCPY EY RLDEFTCADC GLGYWPNASL TGCFLPQ EY IRWGDAWAVG PVTIACLGAL ATLFVLGVFV RHNATPVVKA SGRELCTILL GGVFLCYCMT FIFIAKPSTA VCTLRLRLGLV TAFSVCYSLA LTKTNRIARI FGGAREGAQR PRFISPASQV AICLALISQV LLIVAWLVV EAPGTGKETA PERREVTLR CNHRDASMLG SLAYNVLLIA LCTLYAFNTR KCPENFNEAK FIFTMYTTC IWLALLPIF YVTSSDYRVQ TTTMCVSVSL SGSVLGLCF APKLHIILFQ PQKNVWSHRA PTSRFGSAA RASSLGGQS GSQFVPTVCN GREVDSSTS SL cttttgtct gtagtaggag gaccaacct gagccagag ccgggtgtgag gctcaccgca A gccgctgcca ccgctgctc ctccagttcc tggcaggagt tgcggtgag aggaattttg tgacaggctc tgttagtctg ttcctccctt attgaagg caggccaaag atccagttg gaaatgagag agactagca tgacacattg gctccacct tgatatctcc cagaggtaca	Homo sapiens

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174	3095	Metabotropic NP_000831.1 Glutamate Receptor 3	<p>tggttggttg caccaaggt tccatcatc ctgtttcaac ccagaagaa tgtgtgcaca cacagactgc acctcaacag gttcagtgct agtggaaactg ggaccacata ctctcagtc tctgcaagca cgtatgtgcc aacgtgtgct aatggcgagg aagtccctga ctcaccacc tcatctctgt gattgtgaat tgcagttcag ttctgtgtgt tttagactgt tagacaaaag tgctcacgtg cagctccaga atatggaac agagcaaaag acaacccta gtacctttt ttagaaacag tacgataaat tatttttag gactatata agtcatgtgc tagaactttc taggctgagt ctagtcccc tattattaac aattcccca gaacatggaa ataaccattg tttacagagc tgagcattgg tgacagggtc tgacatggct agtctactaa aaaacaaaa aaaaaaaca aaaaaaaa acaaaagaa aaaaaaaa tacggtggca atattatgta accttttttc ctatgaagtt tttgtaggt cctgttgtga actaatttag gatgagtttc tatgttgtat attaaagtta cattatgtg aacagattga tttctcagc acaaaataaa aagcatctgt attaatgtaa agatactgag aataaacct tcaaggtttt</p> <p>DRGIQRLEAM LFAIDEINKD DYLLPGVKLG VHILDTCSR TYALEQSLEF VRASLTKVDE AEYMCPCDGSY AIQENIPLLI AGVIGGSYSS VSIQVANLLR LFOIPOISYA STSAKLSDKS RYDYFARTVP PDFYQAKAMA EILRFENWTY VSTVASEGDY GETGIEAFEQ EARLNICIA TAEKVGRSNI RKSYSVIRE LLOKPNARVV VLFMRSDDSR ELIAAASRAN ASFTWVADSG WGAQESIIG SERVAYGAI LELASQPVQ FDRYFQSLNP YNNHRNPWR DFWEQKFQCS LONKRNHRRV CDKHLAIDSS NYEQESKIMF VNAVYAMAH ALHKMQRTLC PNTTKLCDAM KILDGKKLYK DYLLKINFTA PFNPNKDDAS IVKDFTEGDG MGRYNVFNQ NVGGKYSYLK VGHWAETLSL DVNSIHWARN SVPTSQCSDP CAPNEMKNMQ PGDVCCWICI PCEPYEYLAD EFTCMDCGSG QWPTADLTGC YDLPEDYIRW EDAWALGPVT IACLGFMCTC MVTVFIKHN NTPLVKASGR ELCYILLFGV GLSYCMTEFF IAKPSVICA LRRGLGSSF AICYSALLTK TNCIARIFDG VKNGAQRPKF ISPSSQVFIC LGLILVQIVM VSVWLILEAP GTRRYTLAEK RETIVLKNV KDSSMLISLT YDVLVILCT VYAFKTRKCP ENFNEAKEIG FTMYYTTCIIV LAFLPIFYVT SSDYRVQTTT MCISVLSLGF VVLGCLFAPK VHILFQFQK NVVTHRLHLN RFSVSGTGTT YSQSSASTYV PTVCNGREVL DSTTSSL</p> <p>ccagatgaca aggaggtggg agaggtgagc agcatgggt acgcggttgg ctgccctcag A tccccctgct gctgaagctg cccgtgcccag gcccaccag gccgtggggc caggggcccgtg ccagggctag gagtggcct gccgttcag gccgttcag gattccgag atgcctggga agagaggtt gggctggtg gggcccgccg tggcccttg cctgctctc agcctttacg gccccctgat gccttctcc ctgggaagc ccaagggcca cctcacatg aattccatcc gcatagatgg ggacatcaca ctgggagggc tgttccggt gcatggccgg ggctcagagg gcaagccctg tggagaactt aagaaggaaa agggatcca ccggtggag gccatgctgt tgcctctgga tcgcatcaac aacgaccgg acctgctcc taacatcag ctgggccc gcattctgga cacctgctcc agggacacc atgcccctga cagtcgctg acctttgtg aggcgtcat cgagaaggat ggacagagg tccgctggg cagtgccgc ccaccatca tcaccaagcc tgaacgtgtg gtgggtgtca tgggtgttc agggagctg gtctccatca tgggtggccaa catccttgc ctcttcaaga taccatcag cagctacgc tccacagcgc cagacctgag tgacaacagc cgctacgact tcttctccg cgtgggtgcc tcggacacgt accaggccca ggccatgggt gacatcgtcc gtgccctcaa gtgtccacag</p>	Homo sapiens
175	3096	Metabotropic NM_000841 Glutamate Receptor 4	<p>ccagatgaca aggaggtggg agaggtgagc agcatgggt acgcggttgg ctgccctcag A tccccctgct gctgaagctg cccgtgcccag gcccaccag gccgtggggc caggggcccgtg ccagggctag gagtggcct gccgttcag gccgttcag gattccgag atgcctggga agagaggtt gggctggtg gggcccgccg tggcccttg cctgctctc agcctttacg gccccctgat gccttctcc ctgggaagc ccaagggcca cctcacatg aattccatcc gcatagatgg ggacatcaca ctgggagggc tgttccggt gcatggccgg ggctcagagg gcaagccctg tggagaactt aagaaggaaa agggatcca ccggtggag gccatgctgt tgcctctgga tcgcatcaac aacgaccgg acctgctcc taacatcag ctgggccc gcattctgga cacctgctcc agggacacc atgcccctga cagtcgctg acctttgtg aggcgtcat cgagaaggat ggacagagg tccgctggg cagtgccgc ccaccatca tcaccaagcc tgaacgtgtg gtgggtgtca tgggtgttc agggagctg gtctccatca tgggtggccaa catccttgc ctcttcaaga taccatcag cagctacgc tccacagcgc cagacctgag tgacaacagc cgctacgact tcttctccg cgtgggtgcc tcggacacgt accaggccca ggccatgggt gacatcgtcc gtgccctcaa gtgtccacag</p>	Homo sapiens

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tgttggcgac ccctctgtct gtctccagcc ctgtctttct gtctctttat ctctttgttt

176	3096	Metabotropic NP_000832.1 Glutamate Receptor 4	<p> caccttttcc cttcttggcg tcccggctg cttgtactct tggccttttc tgtgtctcct ttctggctct tgcctccgcc tctctctctc atcctctttg tccctagctc ctcctgcttt cttgggtccc accagtgtca cttttctgcc gttttctttc ctgttctcct ctgcttcatt ctcgtccagc cattgctccc ctctccctgc caccctccc cagttcacca aaccttcacat cttgcaaaaag agaaaaaag aaaaaaatc aaaaaaaa aagcacaata cgaatacaaaa tctcgagtggt gttgccaagt ctgctgctct cctggtggcc tctgtgtgtg tccctgtggc ccgcagcctg ccgcctgcc ccgcctatct ccgctgtgtc ttgcccgcct gccccgcgcg tctgcctgtc gtctgcccgc cctgcccgcg gttattgacg acaatgtgtg gcgagttcag tgcctgggtg tttgtgtgtg gttattgacg acaatgtgtg gcgagttcag gtttttatac caagaacatt tctaataaaa ataaacacat ggttttgcga aaa MPGKRGIGMW WARLPICLLI SLYGPMPSS LGKPKGPHM NSIRIDGIT LGGLFPVHGR P GSEKPCGEL KKEKGIHRLE AMLEALDRIN NDPDLNIT LGARILDTC RDTHALEQSL TFVQALIEKD GTEVRCGSGG PPIITKPERV VGVIGASGSS VSIMVANILR LFKIPQISYA STAPDLSDNS RYDFFSRVP SDTYQAQAMV DIVRALKNY VSTVASEGSY GESGVEAFIQ KSREDGGVCI AQSVKIPREP KAGEFDKIR RLLETNARA VIIFANEDDI RRVLEAARA NQTHFFWMG SDSWGSKIAP VLHLEVAEG AVTILPKRMS VRGFDRIYSS RTLDNNRRNI WFAEFWEDNF HCKLSRHALK KGSHVKKCTN RERIGQDSAY EQEGKVQFVI DAVYAMGHAL HAMHRDLCPG RVGLCPMDP VDGTLQIKYI RNVNFSGIAG NPVTENENG APGRYDIYQY QLRNDSAEYK VIGSWTDHLH LRIERMHPG SQQLPSRIC SLPCQGERK KTVKGMPCW HCEPTGYQY QVDRTYCKTC PYDMRPTENR TGCRPIPIK LEWGSFWAVL PFLAVVUGA ATLFWITFV RYNDTPIVKA SGRELSYVLL AGIFLCVATT FLMAEPDLG TCSLRRIIFLG LGMSISYAAL LTKTNRIYRI FEQKRSVSA PRFISPASQL AITFSLISLQ LLGICVWFVV DPHSVVDVQ DQRTLDPREA RGVLKCDISD LSLICLLGYS MLLMVTCTVY AIKTRGVPEY FNEAKPIGFT MYTTCIVWLA FIPIFFGTSQ SADKLYIQTT TLTVSVSLSA SVSLGMLYMP KVYIILFHE QNVPKRRKSL KAVVTAATMS NKFTQKGNFR PNGEAKSELC ENLEAPALAT KQYVYTYTNH AI </p>	Homo sapiens
177	3097	Metabotropic NM_000842 Glutamate Receptor 5	<p> acaaaatggt cctttagaaa atacatctga attgctggct aatttcttga ttgcgactc A aacgtaggag atcgcttggt cgtagctatc agaaccctcc tgaattttcc ccaccatgct atctttattg gcttgactc ctttctctaa atggtccttc tgttgatcct gtcagtctta ctttgaaaag aagatgtccg tgggagtga cagtccagt9 agaggaggtt ggtggctcac atgcccgggtg acatcattat tggagctctc ttttctgttc atccaccgct tactgtggac aaagtctcat agaggaaagt tggggcggtc cgtgaacagt atggcattca gagagtggag gccatgctgc ataccctga aggatcaat tcagaccca cactcttgcc caacatcaca ctgggctgtg agataagggg ctcctgtctg cattcggtg tggccctaga gcagagcatt gagttcataa gagattccct catttcttca gaagaggaag aagccttggt acgctgtgtg gatggctcct cctcttccct ccgctccaag aagccctatg taggggtcat tgggcctggc tccagttctg tagccattca ggtccagaat ttgtccagc ttttcaacat acctcagatt gcttactcag caaccagcat ggatctgagt gacaagactc tgttcaataa tttcatgagg gttgtgcctt cagatgtctc gcaggcaagg gccatggtg acatagtga gaggtacaac tggacctatg tatcagcctg gcacacagaa ggcaactatg gaaaaagtgg gatggaagcc ttcaaaagata tgtcagcgaa ggaagggtt tgcctcgcc actcttaca aatctacagt </p>	Homo sapiens

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[illegible]

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181.	3099	Metabotropic NM_000844 Glutamate Receptor 7	<p> KKEQGVHRL E AMLYALDRVN ADPELLGVR LGARLLDTC RDTYALEQAL SFVQALIRGR GDGDEGVRC PGGVPLRPA PPERVAVVG ASASSVSIMV ANVRLFAIP QISYASTAPE LSDSTRYDF SRVPPDSYQ AQAMVDIVRA LGWNYVSTLA SEGNYGESV EAFVQISREA GGVCIAQSIK IPREPKEGF SKVIRRLMET PNARGIIIFA NEDDIRRVLE AARQANLTGH FLWVGSDSWG AKTSPILSLE DVAVGAITIL PKRASIDGFD QYFMTSRLEN NRRNIWFAEF WEENFNCKLT SSGTQSDST RKCTGEERIG RDSTYEQEGK VQFVIDAVYA IAHALHSMHQ ALCPGHTGLC PAMEPTDGRM LLQYIRAVRF NGSAGTPVMF NENGDAAGRY DIFQYQATNG SASSGGYQAV GOWAETLRD VEALQWSGDP HEVPSSLCSL PCGPGERKKM VKGVPCCWHC EACDGYRFQV DEFTCEACPG DMPTPNHTG CRPTPVRLS WSSPWAAPPL LLAVLGIVAT TTVATFVRY NNTPIVRASG RELSYVLLTG IFLIYAITFL MVAEPGAACV AARLFLGLG TTLSYSALLT KTNRIYRIFE QGKRSVTPPP FISPTSQVLI TFSLTSLQV GMIAWLGARP PHSVIDYEEQ RTVDPEQARG VLKCDMSDLS LIGCLGYSL IMVTCTVYAI KARGVPETFN EAKPIGFTMY TTCIIWLAFV PIFFGTAQSA EKIIYIQTTL TVSLSLASV SLGMLYVPKT YVILFHPEQN VQKRKRSILKA TSTVAAPPKG EDAEAHK gaattcccaa caccaggga attttgtat ttttagtaga gattgggtt caccatgtt A gccaggatgg tctccatctc ttgacctcg gatcctctg gcttggtctc caaagtgtc gggattacag gcatgagta ccatatccag ccaactgcag tcattcttat ggggcaaca cttggtgaa cccaggttt ctaagatac aaacccatg gcaacaccaa gcatctta ggaataggca cctggctgac tccaggcatt ctaataatag agacacctg gcgaactcag </p>	Homo sapiens

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183 3100 Metabotropic
Glutamate
Receptor 8

PAKKKYVSY>NNLVI

183 3100 Metabotropic
Glutamate
Receptor 8

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ctacttggtt atattcggc tgtaaaattt aatggcagt ctggcactcc tgtcactttt
aatgaaaaac gagatgctc tggacgttat gatctctcc agtatcaat aaccaacaaa
agcacagagt acaagtcac cggccactgg accaatcagc ttcatctaaa agtggagagc
atgcagtggg ctcatagaga acatactcac ccggcgtctg tctgcagcct gccgtgtaag
ccaggggaga ggaagaaaaa ggtgaaagg gtcccttgc tctggcactg tgaacgctgt
gaagggttaca actaccaggt ggtgagcgtg tctgtgaaac tttgccctct ggtacagaga
cccaacatga accgcacag ctgccagctt atccccatca tcaaatgga gtggcattct
ccctgggctg tgggtgctgt gtttgttga atattggaa tcatgccac cacctttgtg
atcgtgacct ttgtccgcta taatgacaca cctatcgtga gggcttcagg acgcgaactt
agttacgtgc tctaaccgg gattttctc tggatttcca tcacgttttt aatgattgca
gcaccagata caatcatatg ctcttccga cgtatccacc taggacttgg catgtgtttc
agctatgcag cccttctgac caaaacaaac cgtatccacc gaatatttga cagggggaag
aaatctgtca cagcgcccaa gttcattagt ccagcatctc agctggtgat caccttcagc
ctcatctccg tccagctcct tggagtgttt gtctggtttg ttgtggatcc cccccacatc
atcattgact atggagagca gcggacacta gatccagaga aggccagggg agtgcctcaa
tgtgacattt ctgatctctc actcatttgt tcaattggat acagtatcct cttgatggtc

Homo
sapiens

184	3100	Metabotropic NP_000836.1 Glutamate Receptor 8	actgtactg ttatgcaa taaacgaga ggtgtccag agaqttaa tgaagccaaa cctattgat ttaccatgta taccacctgc atcatttggg tagctttcat ccccatcttt tttggtacag ccagtcagc agaaaagatg tacatccaga caacaacact tactgtctcc atgagtttaa gtgcttcagt atctctggc atgtctata tgcccaaggg ttatattata atcttcatc cagaacagaa tgttcaaaa cgcaagagg agttcaaggc tgtgtgaca gctgccacca tgcaaacgaa actgatccaa aaaggaaatg acagaccaaa tggcgagggtg aaaagtgaac tctgtgagag tcttgaacc aacacttct ctaccaagac aacatatatc agttacagca atcattcaat ctgaaacagg gaaatggcac aatctgaaga gacgtgggat atgatcttaa atgatgaaca tgagaccgca aaattcact cctggagatc tccgtagact acaatcaatc aaatcaatag tcagtcttgt aggaacaaa aattagccat gagccaaaag tatcaataaa cggggagtga agaaaccgt ttatacaat aaaccaatg agtgcgaagc taaagtattg cttattcatg agcagttaa acaatcaca aaaggaaaac taatgttagc tcgtgaaaaa aatgctgttg aataataaa tgtctgagt tattcttga ttttctgtg attgtgagaa ctcccgctcc tgtccacat tgtttaact gtataagaca atgagctctg ttctgtgaat ggctgaccag attgaagccc tgggtgtgac taaaaataa tgcaatgatt gatgcacgca atttttata caataaatt atttctaata ataaaggaat gttttgcaaa aaaaaaaaa aaaaactcga g aaaaaaaaa aaaaactcga g	Homo sapiens
185	3212	Opioid mu- type Receptor	gaaattccgg ctataggcag aggaagaatg cagatgctca gctcgggtccc ctccgctga A cgctcctctc tgtctcagcc agactgggt tctgtaagaa acagcaggag ctgtggcagc ggcgaagaga agcgctgag gcgcttgaa cccgaaagc ctggtgctc ctggctacct cgacacaggg tgcgcgcgc gcgctcagta ccatggacag cagcgtgccc cccacgaacg ccagcaattg cactgatgcc ttggcgtact caagtgtct cccagcacc agccccggtt cctgggtcaa cttgtccccc ttagatgga accgtgtcga ccatgcggt ccgaaccgca ccaacctggg cgggagagac agcctgtgccc ctccgaccgg cagtccctcc atgatcacgg ccatcacgat catggccctc tactccatgc tgtgctgtgtg ggggctcttc ggaacttccc	Homo sapiens

186	3212	Opioid mu- type Receptor	NP_000905.1	MDSSAAPTNA SNCTDALAYS SCSPAPSPGS WVNLSHLDGN LSDPCGNRT NLGGRDSLCP P	Homo sapiens
				tggatcatgta tgtgattgtc agatacacca agatgaagac agatgaagac tgccaccaac atctacattt tcaaccttgc tctggcagat gccttagcca ccagtagcct gccttccag agtgtgaatt acctaatggg aacatggcca tttagaacca tcttttcaa gatagtatc tccatagatt actataacat gttcaccagc atattcacc tctgcaccat gagtgtgat cgatacattg cagtgtgcca cctgtcaag ccttagatt tccgtactcc ccgaatgcc aaaattata atgtctgcaa ctggtacttc tcttagcca ttggtattcc tgtaattgtc atggtacaa caaaatcacg gcaaggttcc atagattgta cactaacatt ctctcatcca acctggtact gggaacacct cgtgaagatc tgtgttttca tcttcgacct cattatgcca gtgctcatca ttaccgtgtg ctatggactg atgattcttg gcctcaagag tgtccgcatg ctctctggct ccaaagaaaa ggacaggaat cttagaagga tcaccagat ggtgctggtg gtggtggtg tgttcatcgt ctgctgact ccattcaca ttacgtcat cattaaagcc ttggttacaa tcccagaaac tacgttcag actgtttctt ggcacttctg cattgctcta ggttacacaa acagtgcct caaccagtc ctttatgcat ttctgtgaga aaacttcaa cgaatcttca gaggttctg tatcccaacc tcttccaaca ttgagcaaca aaactccat cgaatctgct agaactag agaccacccc tccacggcca atagagtga tagaactaat catcagctag aaaaactgga agcagaact gctccgtgc ctaacaggg tctcatgcca tccgacctt caccagctt agaagcacc atgtatggtg aagcaggtg ctccaagaat gtgtaggagg ctctaattct ctaggaaagt gcctactttt agtcatcca acctcttcc tctctggcca ctctgctctg cacattagag ggacagcaa agtaagtgg agcatttga aggaaggaa tataccacac cgaggagtc agtttgtgca agacaccag tggaaacaaa accatcgtg gtatgtgaat tgaagtcatc ataaaagtg acctctctg ctgtaagatt ttattttcaa gcaaatattt atgacctcaa caaagaagaa ccactcttg ttaagttcac cgtagtaaca cataagtaa atgtaactc tgatcaagc acctgaatg gaaggtccga gtctttttag tgtttttgca aggaatgaa tccattatc tattttagac tttaacttc aacttaaaat tagcatctgg ctaaggcatc attttcact ccatctctg gttttgtatt gtttaaaaa aataacatct ctttcatcta gctccataat tgcaaggga gagattagca tgaaaggtaa tctgaacac agtcatgtgt canctgtaga aggttgatt ctcatgcat ncaaatactt ccaaagagtc atcatggggg atttttcaat cttaggcttt cagtgtgtt ttcctggaat tc	
187	3223	Muscarinic acetylcholin e Receptor M1	NM_000738	atgaacactt cagcccaacc tgctgtcagc cccaacatca ccgtctctggc accaggaag A ggtccctggc aagtggcctt cattggatc accacgggc tctgtcgtc agccacagt acaggcaacc tgctggact catctcttcc aaggtcaaca cggagctcaa gacagtcaa aactacttcc tgctgagcct ggcctgtgct gacctcatca tcggtacctt ctccatgaac ctctatacca cgtacacctgct catggggccac tgggctctgg gcacgtggc ttgtgacctc	Homo sapiens

188	3223	Muscarinic acetylcholin e Receptor M1	NP_000729.1	<p> tgaactatgt ggcagcaat gctcogtca tgaatgtct gctcatcagc tttgaccgt acttctcgt gactggccc ctgagctacc gtgcaagcg cacacccgc cgggcagctc tgatgatcg cctggcctgg ctggttctct ttgtgtcttg ggcacccgc atctcttctt ggcagtaact ggtagggag cggacgatgc tagtgggca gtgctacatc cagttctctt cccagcccat catcacctt ggcacagcca tggctgcctt ctactcctt gtcacagtca tgtgacgct ctactggcg atctacggg agacagagaa ccgagcacgg gagctggcag ccttcaggg ctccgagcg ccaggcaaa ggggtggcag cagcagcagc tcagagaggt ctgagccagg gctgagggc tcaccagaga ctctccagg ccgctgtgtg cgctgtgccc gggcccccag gctgtgcag gctacagct ggaaggaaga agaggaagag gacgaaggct ccattggagtc cctcacatcc tcagagggag aggagcctgg ctccgaagtg gtgatcaaga tgccaatggt ggaccccgag gcacaggccc ccaccaagca gccccacgg agctcccaa atacagtcaa gagccgact aagaaaggcg gtgacgagc tggcaaggcg cagaagcccc gtgaaagga gcagctggcc aagcgaaga ccttctcgt ggtcaaggag aagaaggcgg ctggaccct gagtgccatc ctctggcct tcactctcac ctggacacgg taacaatca tgggtgctgt gtccacctc tgcaaggact gtgttccga gacctgtgg gagctgggt actggctgtg ctacgtcaac agcaccatca acccatgtg ctacgcactc tgacaacaa ccttcggga cactttcgc ctgctgtgctg tttgcccgtg ggacaagaga cgctggcgca agatcccaa ggcacctggc tccgtgcacc gcactccctc ccgccaatgc tga </p>	Homo sapiens
189	3224	Muscarinic acetylcholin e Receptor M2	NM_000739	<p> tgnllslatv tgnllvlisf kvntelktnv p wladvyvasn asvmnlllis ilfwqylvge rtmlagqcyy elaalqset pgkggssss degsmeslts seggepgsev qkprgkeqla krktfslvke elgywlcynv stinpmcyal ttacaagtcc ttataagaca a gtttggtgac cattatcggg tccagaccgt caacaattac ttttctccat gaacttgtac tgggtgtgta cctttggcta tgctcatcat cagctttgac agcggaccac aaaaatggca cttgggctcc agccattctc gggagtgcta cattcagttt ccttctattt gccagtgtac agagcaggat aaagaaggac gtctgggtaca aggaaggata gcctggagca caacaaaatc gtgttcagg agaggagaag </p>	Homo sapiens

190	3224	Muscarinic acetylcholin e Receptor M2	NP_000730.1	<p>gagagctcca atgaactccac ctcaagtcagt gctgtgtcct ctaatatgag agatgatgaa ataacccagg atgaatacac agttccact tccctgggcc attccaaaga tgagaactct aagcaaacat gcatcagaat tggcaccag accccaaaa gtgactcatg taccceact aataccaccg tggaggtagt ggggtcttca ggtcagaatg gagatgaaaa gcagaatatt gtagcccgca agattgtgaa gatgactaag cagcctgcaa aaaagaagcc tcctccttcc cgggaaaaa aagtcaccag gacaatttg gctattctgt tggctttcat ctcacttgg gccccataca atgtcatggt gctcattaac accctttatg cacttgcac ccccaaacat gtgtggacaa ttgttactg gctttgttac atcaacagca cstatcaacc tgcctgctat gcactttgca atgccacctt caagaagacc ttaaacacc ttctcatgtg tcattataag aacataggcg ctacaagta a</p>	Homo sapiens
191	3226	Muscarinic acetylcholin e Receptor M4	LG1143	<p>FEVFEIVLVA GSLSLVTIIG NILVMVSIVK NRHLQTVNNY P FLFSIACADL IIGVFSMNLV TLYTVIGWYP LGPVVCDLWL ALDYVVSINAS VMNLLIISFD RYFCVTKPLT YPVKRTTKMA GMMIAAAWVL SFILWAPAIL FWQFIVGVRT VEDGECYIQF FSNAAVTFGT AIAAFYLPVI IMTVLYWHIS RASKSRIKKD KKEPVANQDP VPSLVQGR I VKPNNNMPS SDDGLEHINKI QNGKAPRDPV TENCVOGEEK ESSNDSTSVS AVASNMRRDE ITQDENTVST SLGHSKDENS KQTCIRIGTK TPKSDSCTPT NTTVEVVGSS QONGDEKONI VARKIVMTK QPAKKKPPPS REKKVTRTIL AILLAFITW APYNVMVLIN TFCAPCIPNT VWTIGYWL CY INSTINPACY ALCNATEFKKT FKHLLMCHYK NIGATR CCTGCGAGTG CCGATGTTC GATACTGGCA CAGCAGCAGG TGCCGGAAGG TCTTTTAAA A GGTGCGGTG CACAGAGCAT AGCAGCAGG GTTGATGGTG CTGTTGACGT AGCAGAGCCA GTAGCCAATG GACCACACCG GGTCAAGGAT CAGAGTTGG CAGAAGGTGT TCACCAGGAC CATGACGTTG TGAGGCGTCC CGGTAGGAT GAAAGCTAAC ANAATGGCAA AGATCGGTG TGCACTTTG CGTCCCGGG CCGCATCTG CCGCTTCTG CGCACCTGG TGCGAGCGAT GCTAGCGAAC TTGCGGGCCA CGTTGGCGC AGCGCATGC CAGNCGCGT GGGAGGGACA ATCTCAGGGC TGGCACACAC TCATGGGCTG GCTGGGCTCG TCAAAATTTG GATCTTGGAC CATCTGGGAG GCTTGGTTGA AGGCCCCCGG CTCGGACTTG CGGGCATGAA TCCAGGCCTT ACTTANAGG ATCCCCCCT CTCC</p>	Homo sapiens
192	3226	Muscarinic acetylcholin e Receptor M4	NM_000741	<p>atggccaact tcacactgt caatggcagc tcgggcaatc agtccgtgag cctggtaag A tcatcatccc acaatcgcta tgagacgtg gaaatggtct tcattggccac agtgacaggc tccctgagcc tgggtgactgt cgtgggcaac atcctggtga tgctgtccat caagggtcaac aggcagctgc agacagtcaa caactactc ctcttcagcc tggcgtgtgc tgatctcatc ataggcgctt tctccatgaa cctctacac gtgtacatca tcaagggcta ctggccccctg ggcgccgtgg tctcgacct gtggctggcc ctggactacg tggtagcaaa cgcctccgtc atgaaccttc tcatcatcag ctttgaccgc tctctgtg taccacagcc tctcacctac ctgccccggc gcaccaccaa gatggcaggc ctcatgattg ctgctgcctg ggtactgtcc ttcgtgtctt gggcgctgc catctgttc tggcagtttg tggtaggtgaa gcggacgggtg cccgacaacc actgcttcat ccagttcctg tccaaacccag cagtgcacct tggcacagcg attgtgcct tctacctgcc tgtgtgtcatc atgacgtgag cgaaggagaa catctccctg gccagtgcga gccagtgcca caagcacggg cccgagggcc cgaaggagaa gaaagccaaag acgctggcct tcctcaagag cccactaatg aagcagagcg tcaagaagcc cgcgccggga ggcgccccgg gaggaactgc caatggcaag ctggaggagg cccccccg agcgtgcca</p>	Homo sapiens

Homo
sapiens

P

NP_000732.1

Muscarinic
acetylcholin
e Receptor
M4

3226

193

ccgccaccgc gccccgtggc tgataaggac acttccaatg agtcagctc aggcagtgcc
 acccagaaca ccaaggaacg ccagccaca gactgtcca ccagaggc caccatccc
 gccatgccc gccctccc gccgcccgg gccctcaac cagctccag atgtccaag
 atccagattg tgacgaagca gacaggcaat gactgtgtga cagccattga gattgtgcct
 gccacgccc ctagcatgag cccctggcg aactggccc caggtttcgc cagcatcgct
 cgaaccagc tgcgcaagaa gggcagatg gggcccggg agcgcaaat gacagaaacg
 atctttgcca ttctgttagc cttcatctc accctggacg cctacaacgt catggtcctg
 gtgaacacct tctgccagag ctgcatccct gacacggtgt ggtccattgg ctactggctc
 tgctacgtca acagcaccat caacctgcc tgcctgtctc tgtgcaacg cactttaaa
 aagaccttc gccacctgct gctgtgccag tatcggaaca tggcactgc cagtag
 MANFTPVNGS SGNQSVRLVT SSSHRYETV EMVFATVTG SLSLVTVGN ILVMSIKVN
 RQLQTVNNYF LFSIACADLI IGAFSMNLYT VYIKGYWPL GAVVCDLWLA LDYVVSNASV
 MNLLISFDR YFCVTKPLTY PARTTKMAG LMIAAAWVLS FVLWAPAILF WQFVVGKRTV
 PDNHCIFIQL SNPAVTFGTA IAFYLPVVI MTLVLIHISL ASRSRVHKHR PEGPKKKAK
 TLAFKSPLM KQSVKKPRPG GRPGGLRNGK LEAAPPPALP PPRRPVADKD TSNESSGSA
 TQNTKERPAT ELSTTEATTP AMPAPPLQPR ALNPASRWSK IQIVTKQTGN ECVTAIEIVP
 ATPAGMRPAA NVARKEASIA RNQVRKKRQM AARERKVTRT IFAILLAFIL TWTPYNNMVL
 VNTFCQSCIP DTVWSIGYWL CYVNSTINPA CYALCNATEFK KTFRHLILCQ YRNIGTAR
 atggaagggt attcttacca caatgcaacc accgtcaatg gcaccacgt aaatcacag A
 cctttggaac gccacaggtt gtgggaagtc atcacattg cagctgtgac tgcgtgtgta
 agctgatca ccatgtggg caatgtcttg gtcattgctt ccttcaaat caacagccag
 ctcaagacga ttaacaacta ttacctgtc agcttagcct gtgcagatct catcattgga
 atcttctcca tgaacctcta caccactac atctcatgg gacgtgggc tctcgggagt
 ctggcttggt accttggct tgcactggac tacgtggcca gcaacgttc tgcattgaac
 ctcttggtga tcagttttga ccgttacttt tccatcaca gaccttgac atatcgggac
 aagcgtactc cgaagagggc tggcatcatg attggccttg cctggcctgat ctccttcac
 ctctgggccc cagcaatcct ctgctggcag tacttgggtg ggaagcggac agttccactg
 gatgagtgc agatccagtt tctctgtgag cccaccatca ctttggcac tgcattgct
 gccttctaca tccctgttct tgcctgacc atcctctact gtcgaatcta ccgggaaaca
 gagaagcgaa ccaaggacct ggctgacct cagggttctg actctgtgac caaagctgag
 aagagaaagc cagctcatag ggctctgttc agatcctgct tgcgtgtcc tgcaccacc
 ctggcccagc gggaaggaa ccaggcctcc tggctcatct cccgcaggag cactccacc
 actgggaagc catcccaagc cactggcca agcgccaatt gggccaaagc tgagcagctc
 accacctgta gcagctaccc tctctcagag gatagggaca agccccccac tgacctgtc
 ctccaagtgg tctacaagag tcagggttaag gaaagccag gggaagaatt cagtgtgaa
 gagactgagg aaacttttgt gaaagctgaa actgaaaaaa tgactatga caccctaaac
 taccttctgt ctccagcagc tgctcataga cccaagatc agaaatgtgt ggcctataag
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 aaaatcatgc cctgcccctt cccagtggcc aaggaacctt caacgaaagg cctcaatccc
 aacccagccc atcaaatgac caaacgaaag agagtggctc tagtcaaaag gaggaagca
 gccagacac tgagtgcct tctcctggcc ttcattcata catggacccc gtataacatc

Homo
sapiens

A

NM_012125

Muscarinic
Acetylcholin
e Receptor
M5

3227

194

197	3378	Tachykinin Receptor 3	NP_001050.1	aaggtagtgt ataatgtga caagacact aataacatgt tagcctccac caaaaataaa atgggcttta aattt PVASPAEQP WANLTNQFVQ PSWRIALWSL AYGVVAVAV LGNLIWII LAHKRMRTVT NYFLVNLAFS DASMAAFNTL VNFYALHSE WYFGANVCRF QNFPTAVF ASIYSMTALA VDRYMAIIDP LKPRLSATAT KIVIGSIWIL AFLLAFFQCL YSKTKVMPGR TLCFVQWPEG PKQFTYHII VIIIVCYFPL LIMGITYTIV GITLWGEIP GDTCDKYHEQ LKAKRKVVKM MIIIVMTFAI CWLPYHIFYI LTAIYQQLNR WKYIQOYLA SFWLAMSSTM YNPIIYCCLN KRFRAFGRKRA FRWCFFIKVS SYDELELKT REHPNQSSM YTVTRMESMT VVFDPNDAAT TRSRKKRAT PRDPSFNGCS RRNSKSASAT SSFISPYTS VDEYS	Homo sapiens
198	3380	Neuromedin B Receptor	NM_002511	gtgctgtgag gcttgccgc ggacagtaaa cttgcagggg cgagaggagg ggacatcgat A taaacctaaa tegtgggctg ttagtctca gggcaccgag cgcgtgaaaa ctccagcggg ctctgtgga aaggagatca tgcctctaa gtctcttcc aactctcgg tgaccaccgg cggaatgag agcggttccg ttcccgagg gtgggaaagg gattctctgc cgccctcggg cgggaccacc acggagtgg tgatccgctg tggatcccg tccctctacc tgctcatcat caccgtgggc ttgctgggca acatcatgct ggtgaagatc ttcatacca acagcggcat gaggagcgtc ccaacatct tcattctaa cctggggcc ggggacttgc tgctgctgt cacctgcgtc cgggtggag cctcggcta cttctcgac gagggtatgt ttggcaagg gggtgcaaa ctgattccctg tcatccagct cactccgtg ggggttccg tgttactct cactgcccctc agcgcggaca ggtacagagc catcgttaac cccatggaca tgcagacgtc agggcattg ctgcggacct gtgtgaaggc catgggtatc tgggtggtct cctgtgtgtc ggcagttccc gaagcgtgt tttagaagt ggctcgatc agtagctgg ataatagcag cttcacagca tgtatcccat accctcaaac agatgaatta catccaaaga ttcattcagt gctcattttc ttggtctatt tctctatcc acttgctatt attagcattt attattatca tatgcaaaag accttaatta aaagcgaca caacttctt ggagaataca atgaacatac caaaaacag atggaacac ggaacgcct ggctaaaatt gtgctgtct ttgtgggctg tttcatcttc tgttggtttc caaacacat cctttacatg tatcgtgtct tcaactataa tgagattgat ccattctag gccacatgat tgtcacctta gttgcccggg ttctcagttt tggcaattct tgtgtcaacc catttgctct ttacctactc agtgaaagct tcaggaggca tttcaacagc caactctgct gtgggaggaa gtcctataa gagagaggaa ccagctacct actcagctct tcagcgtgc gtatgacatc tctgaaagc aatgtaaga acatggtgac caattctgt ttactaaatg ggcacagcat gaagcaggaa atggcaatgt gattttggcc attcaactca ctacttgag agaacttagt aa attcaactca ctacttgag agaacttagt aa	Homo sapiens
199	3380	Neuromedin B Receptor	NP_002502.1	MPKSLSLNLS VTTGNESGS VPEGWERDL PASDGTTEL VIRCVPISLY LLIITVGLLG P NIMLVKIFIT NSAMRSVPNI FISNLAAGDL LLLTLCVPVD ASRYFFDEWM FGKVGCKLIP VIQLTSGVGS VFTLTALSAD RYRAIVNPMQ MOTSGALIRT CVKAMGIWV SVLLAVPEAV FSEVARISL DNSSTACIP YPQDELHPK IHSVLFLVY FLIPLAISI YYHIAKTLI KSAHNPGEY NEHTKKQMET RKRLAKIVLV FVGCFFCFWF PNHILMYRS FNYNEIDPSL GHMIVTLVAR VLSFGNSCVN PFALYLISES FRRHENSQLC CGRKSQERG TSYLLSSAV RMTSLKSNK NMVTNSVLLN GHSMKQENAM	Homo sapiens

200	3404	Neuropeptide NM_000910 Y Receptor Type 2	A	Homo sapiens
			tatcttatcc ctatcttagc ttttaacctg agccagagct cactacacag gttcttggtc	
			atcgagtctg aatgtgcaat actcaactta taaactgtct gcagacacct gttaggga	
			ttgtgatca tggcgccgag gatctgaact cgtttacct tcttgttttg agcacaggga	
			cgccccagct agaggagcac cagcgactg cgccccagcc ctggcgagag gtgcggagga	
			tttgttctcg gtgcaatcct gctggcgctt ttcgggggtt ctgcgggat ccagctcccc	
			atctctgtc ctacacacac aaagaaaaa aactctgat tggaaagtgt ggaattttct	
			cagccccac gagcgcggtg gattctccag ccccgccct cctcccgcca gctgaggtc	
			tccttgcgc gctgcccctg ctaggaccg cagtcctca cccgcagctg ggtctgtccg	
			ccccccctt gccctgcct tttccgggg cggatttgtt gaagtcggcc tcaagtcag	
			gaggtctgtc ttcgccggc cagctctgc ggaactgggg ggtagagagc aaaggagag	
			attcgtggaa gggaaggag gtagggttg cgcaaacgcc cagagtatca aacttgggg	
			tggcacagta ggtgacagca gcagctgcag gtggtggctg gggaccgcg agggggcgcc	
			ctctgggtg ggtctggct gagcggtt gcaagcccg gaggcgctg agagaccctg	
			gcactgttc ctgtccctc gccacaaaa ctctctctc agtccctcc cctgcaggac	
			catgccccg agcctctgca cctgttttct tgtgtttaag ggtggggtt gccccctcc	
			ccagctccc atctctgac ctccacctt caccgccca ccccgaggt ggtgctgtg	
			cccaggcgcg cttggcctga gagtctggca gcagaccgg cagcgccaac cggccagccg	
			ctctgactgc tccgctgccc cgcgcgcg cgccgggtg tcttgagccc taggagggga	
			cggaaaccgga cttgccttg ggcaccttc agggccctct ccaggtcggc tggctaata	
			tgggacagac ggaactgaca catctgttt cgcgtctcc gcaaaacgc gagtccagg	
			tcagttgtag actctgtgc tggttgcagg ccaagtgtag ctgtactgaa aatgggtcca	
			ataggtgcag aggcctgatg gaaccagaca gtggaagaaa tgaaggtgga acaatacggg	
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			accaagtga ttgaggtaca agttgtctc atattggct actgctccat catcttgctt	
			gggtaattg gcaactcctt ggtgatccat gtggtgaca aattcaagag catgcgcaca	
			gtaaccaact ttttcattgc caatctggct gtggcagatc ttttggtgaa cactctgtgt	
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201	3404	Neuropeptide NP_000901.1 Y Receptor Type 2	<p>ggctcacaag tgaaaactga ttcccatatt taagaagaa gtggatctaa atggaagcat ctgtgttta attctggaa aactggctgg gcagagcctg tgtgaaata ctggaattca aagataaggc acaaaaatgg ttacttaac agttgggtgg gtagtaggtt gcattatgag taaaagcaga gagaagtact ttgtattatt ttccctggagt gaagaaaact tgaacaagaa attggtatta tcaagcatt gctgagagac ggtgggaaaa taagttagct ttcaaatcac gttaggacct ggattgagga ggtgtgcagt tgcgtctccc ctgcttggtt tatgaaaaa ccactgaaca gaaatttctc caggagacca caggctctcc ttcatcgcat ttgtattttt ttgttcattc tctagacaaa atccatcagg gaatgtgca ggaacgatt gccaaactata cgaatggctt cgaggagata aactgaaatt tgctatataa ttaatatatt ggcagatgat agggaaactc ctcaacactc agtgggcaaa ttgttcttaa aaccaattgc acgtttgggtg aaagtttctt caactctgaa tcaaaagctg aaattctcag aattacagga aatgcaaac atcatttaatt ttctaatttc aagttacatc cgctttatgg agatactatt tagataacaa gaatacaact tgatactttt attgttatac ctttttgaac atgtatgatt tctgttgtta ttaccctttt taacagata aatatttttt ttctatttta gagttagcga atctaattct aatctaactt tttaggagta tatttcagag aaattccaag cacaccagta tgaccatcct tatttcagaa atgacaatgc atagagaaa agtaatatgt gcaagcctc cgaagagat ggttaagtaa agacttaggt taccagtatc aggtttcgt ttttgtatgt aggtagctct actgcctcct cttaaaacca acaaaagaaa gagagactgg ctgcaaaact ttagaagaa tggcttcgaa tagggttcct gggaggaaat ccgaggaaat agacgctgct gctctgctga ttgtctccac tatctgttt ttgtcttacc cactaatcca cctcgggagg ctctgggcat tagcggaagg cttcaaccac agtagacagg agcgaattt ccataggcat gcgtctctag tggcacgagt ggcttgggtc aggatcaaa agtgaagat tcggaaagta gctatctgga gagagagaga gattgtgtt tattcgtgtc ccatagttt cctatcctat cctatccta gctttaacc tgagccagag ctcactacac aggttctctg ctatcgagtc tgaatctgca ctactcaact tataaactgt ctgcagacac ctgttaggga aattgctgat catggcgccg aggatctgaa ctgcgtttac cttctgttt ggagcacagg gaccgccag ctaggaggag accagcgac tgcgccccag cctggggcga ggtgcccagg gatttgttct cgttgcaatc ctgtggcgc ttttccgggg ttctgcggg atccagctcc ccatctctgc tctacacac acaaaagaaa acaactctcg attggaagt gtggaattt ctacgcccc acgaggcgcg gggattctcc agccccggc ctctccgcg cagcctgagg tctccttgc tcgctgcct tgctagggac cgcagtcctc cagccgcagc tgggtctgtc cgcgccgct ttgccctcgc ctttcccg ggcggaattg gtgaagtcgg cctcaagtc aggaggtctg tcttcgcggg gccagctctc</p> <p>ILLGVGNLSL VIHVKFKS MRTVTNFFIA NLAVALLVN TLCLPFTLY TLMGEWMGP VLCHLVPAQ GLAVQSTIT LTVIALDRHR CIVYHLESXI SKRISFLIG LAWGISALIA SPLAIFREYS LIEIIPDFEI VACTERWPGE EKSIYGTVYS LSSLLILXVL PLGIISFSYT RIWSKLKNHV SPGAANDHYH QRRQKTKML VCVVVFAVS WLPLHAFOLA VDIDSQVLDL KEYKLIFTVF HIAMCSTFA NPLLYGMNS NYRKAFLSAF RCEQRLDAIH SEVSVTFRAK KNLEVRKNSG PNDSFTEATN V</p>	Homo sapiens
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202	3405	Neuropeptide NM_005972 Y Receptor Type 4	atgaacaccc ctacccctc ttggttgctg ggccttgctg ctcccaaat ctcccaagg tgaacaacaga A agcaaacccc tgggcacccc atacaacttc tctgaacttc gccagatttc cgtggacgtg atggtcttca tegtacttc ctacagcatt gagactgtcg tgggggtcct gggtaacctc tgctgatgt gtgtgactgt gaggcagaag gaaaaagcca acgtgacca cctgcttacc gccaacctgg ccttctctga cttctctcatg tgccctctct gccagccgt gaccgcgtc tacaccatca tggactactg gatcttggga gagacctct gcaagatgtc ggccttcac cagtgcattg cgtgacggt ctccatctc tgcctgtcc tgcctggcct ggagaggcat cagtcacatc tcaacccaac aggtggaag ccagcactc cacaggccta cctggggatt gtgtcatct ggttcattgc ctgttcttc tccctgctt tccctggcaa cagcactcgt gagaatgtct tccacaagaa ccactccaag gctctggagt tccctggcaga taagggtgtc tgtaccaggt cctggccact ggctcaccac cgcacctct acacacctt cctgtctctc ttccagttact gctcccaact gggcttctc ctggtctgtt atgcacgcat ctaccggcgc ctgcagaggc aggggcgcgt gtttcacaag ggcacctaca gcttgcgagc tgggcacatg aagcaggtca atgtgtgtct ggtggtgatg gtggtggcct ttgctgtgct ctggtctgct ctgcattgtt tcaacagcct ggaagactgg caccatgagg ccatcccat ctgccacggg aacctcatct tcttagtgtg ccacttgctt gccatggcct ccactgcgt caacccattc atctatggct ttctcaacac caacttcaag aaggagatca aggcctggt gctgacttgc cagcagagcg cccctctgga ggagtggag catctgccc ccatctaa gtctccaaag ggtccctgag gctaagtggc aggtccaat ccatctaa 1 MNTSHLLALL LPKSPQENR SKPLGPNF SEHCQSDVDV MVFIVTSYI ETVGVGLNL P 203 3405 Neuropeptide NP_005963.1 Y Receptor Type 4	CLMCVTVRQK EKANVTNLLI ANLAFSDFLM CLCQPLTAV YTIMDWFIFG ETLCKMSAFI QCMSTVTSIL SLVVALERH QLIINPTGK PSISOALGI VLIWVIACVL SLPFLANSIL ENVEHKNHSHK ALEFLADKW CTESWPLAHH RTIYTFLLL FQYCLPLGFI LVCYARIYRR LQROGRVFKH GTYSLRAGHM KQNVVVLVVM VVAFVLMWLP LHVFNSLEDW HHEAIPICHG NLIFLVCHLL AMASTCVNPF IYGFINTNFK KEIKALVLTG QQSAPLEESE HLPSTVHTE VSKGSLRLSG RSNPI	Homo sapiens
204	3406	Neuropeptide NM_006174 Y Receptor Type 5	gaaaggctat cggtaacaac tgacctgcca caaagttaga agaaaggatt gattcaagaa A agactataat atggatttag agctcgacga gtattataac aagacacttg ccacagagaa taatactgct gccactcgga atcttgattt ccagctctgg gatgactata aaagcagtgt agatgactta cagtatttct tgattggct ctatacattt gtaagtcttc ttggcctttat ggggaatcta cttattttta tggctctcat gaaaaagcgt aatcagaaga ctacgggtaaa cttctcata ggaactctgg cctttcttga tatcttggtt gtgctgtttt gctcaccttt cacactgacg tctgtcttgc tggatcagtg gatgtttggc aaagtcatgt gccatatatt gccttttctt caatgtgtgt cagtttttgt ttcaactta attttaatat caattggccat tgtcagggtat catatgataa aacatcccat atctaataat ttaacagcaa accatggcta ctttctgata gctactgtct ggacactagg ttttgccatc tgttctccc ttccagtgtt tcacagtctt gtggaactc aagaaacatt tggttcagca ttgctgagca gcaggatttt atgtgttgag tcatggccat ctgattcata cagaattgcc ttactatct cttattgtct agttcagtat atctgtccct tagtttgtct tactgtagt catacaagtg tctgcagag tataagctgt ggattgtcca acaaaagaaa cagacttgaa gaaaatgaga tgatcaactt aactcttcat ccatccaaaa agagtggcc tcaggtgaaa ctctctggca gccataaatg	Homo sapiens	

205 3406 Neuropeptide NP_006165.1 Y Receptor Type 5 Homo sapiens

gagttattca ttcatcaaaa aacacagaag aagatatagc aagaagacag catgtgtgtt
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 QCVSVLVSTL ILISIAIVRY HMIKHPISNN LTANHGYFLI ATVWTILGFAL CSPLPVFHSI
 VELQETFGSA LLSSRYLCVE SWPSDSYRIA FTISLLIVQY ILPLVCITVS HTSVCRSISC
 GLSNKENRLE ENEMINLTILH PSKSGGPQVK LSGSHKWSYS FIKKHRRYS KKTACVLPAP
 ERPSQENHSR ILPENFGSVR SOLSSSSKFI PGVPTCFEIK PEENSDVHEL VKRKSVTRIK
 KRSRSVFYRL TILILVFAVS WMLHLFHV TDFENDNLISN RHFKLVYCIC HLLGMMSCLL
 NPILYGFLNN GIKADLVSLI HCLHM

206 3408 Neurotensin NM_002531 Receptor Type 1 Homo sapiens

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ctctatctg tgacttacc gtaggtagg acagtgtcc atgcaccaca gacacacca

207	3408	Neurotensin Receptor Type 1	NP_002522.1	cgacacctga tctcgtatca ctagcttgcg gccaggtcat gatgtggccc cggaagctgg ccctgcgtgc catgagtgcg tcggtcatgg agtcggagcg cctgagccgg gcccttggtg acggcacagc cctcacagct caaacgcccc ccccaactcc caccatctgc aggtggtgaa aacaaccccc gtgtatctct caataaaggt ggccgaaggg cctcgatgtg YSKVLVTAVY LALFVVGTVG RQAGLEAL LAPGFGNAGS NASERVLAAP SDELLTLLAM PVELYNEIWF HHPWAFGDAG CRGYFLRDA CTYATALNVA SLSVERYLAI CHPFKAKTLM SRSRTKKFS AIWLASALLT VPMLEFMGEQ NRSADQHGAG GLVCTPTIHT ATVKVVIQVN TMSFIFPMV VISVLNTIIA NKLTVMVRQA AEQGVCTVG GEHSTFMAI EPGRVQALRH GVRVLRRAVI AFVVCWLPYH VRRLMFCYIS DEQWTFPLYD FYHYFYMTN ALFYVVSSTIN PILYNLVSAN FRHIFLATLA CLCPVWRRRR KRPAFSRKAD SVSSNHTLSS NATRETLV cctgctctgc acctgtcgtc gactgccagc cggctgaggg cgggggtctc cactgtggtc A ccagctccca agaggtgtgc agaagtaccg tacagagtgg atttgacagg cagtggcatg gagccccctc tccccgcgc gttctgggag gttatctacg gcagccacct tcaggggcaac ctgtccctcc tgagccccc aaacagctcg ctgccccgc atctgtgtct caatggccagc cacggcgctc tctgccccct cgggctcaag gtcacacatg tggggctcta cctggccgtg tgtgtcggag ggtcctctgg gaactgcctt gtcattgacg tcactctcag gcacacccaa atgaagacag ccaccaatat ttacatcttt aacctggccc tggccgacac tctgggtcctg ctgacgtgc ccttcacagg caggacatc ctcctgggtt tctggccgtt tgggaatgcg ctgtgcaaga cagtcatgac cattgactac taacacatgt tcaccagcac ctacaccta actgccaatga gtgtggatcg ctatgtagcc atctgccc ccactcgtgc cctcgacgtc cgcaactcca gcaagaccca ggtgtgcaat gtggccatct gggccctggc cctgtgttc ggtgttcccc ttgccatcat gggctcggca caggtcgagg atgaagagat cgagtgcctg gtggagatcc ctacccctca ggattactgg ggcctggtgt ttgccatctg catcttctc ttctcttca tctgccccgt gctcgtcatc tctgtctgct acagcctcat gatccggcgg ctcgtggag tccgctgct ctcgggtccc cgagagaagg accggaacct gcggcgcatc actcggctgg tctgtgtggt agtggctgtg ttctgtggtt gctggacgcc tgtccaggtc ttctgtcgtg cccaagggt gggggttcag ccgagccagc agactgcctg gccattctg cgcttctgca cggccctggg ctacgtcaac agctgcctca accccatctc ctacgcctc ctggatgaga acttcaaggc ctgcttccgc agttctgct gtgcatctgc cctgcgcgg gactgacagg tgtctgaccg cgtgcagc attgccaagg acgtggccct gccctgcaag acctctgaga cggtaaccgc gcccgcata ctaggcgtgg acctgccat ggtgcctgtc agcccgaga gcccatctac gcccacaca gagtcacac aggtcacctg tctctaggcg gacacacctt gggccctgag catccagagc ctggatgggg cttttccctg tgggccaggg atgctcggtc ccagaggagg acctagtac atcatgggac aggtcaaaagc attagggcca cctccatggc ccagagacaga ctaaaagctgc cctcctggg cagggccgag gggacacaa gacctacctg gaagcagctg acatgctgggt ggacggccgt tactggagcc cgtgccctc cctccccgtg cttcatgtga ccttggcct ctctgctgt cgttggcag aacctgggt gggcaggcac ccggaggagg agcagcagct gtgtcatcct gtgccccca tgtgtgtgt gctgtttgca tggcagggtt ccagctgctt tcagccctgt cagctctcct cagggcagct ggacagggtt ggacacggccc gggaagtga gcaggcagct ttcttttggg tggggacttg	Homo sapiens
208	3452	Opiate Receptor- Like 1 (OPRL1)	NM_000913	cctgctctgc acctgtcgtc gactgccagc cggctgaggg cgggggtctc cactgtggtc A ccagctccca agaggtgtgc agaagtaccg tacagagtgg atttgacagg cagtggcatg gagccccctc tccccgcgc gttctgggag gttatctacg gcagccacct tcaggggcaac ctgtccctcc tgagccccc aaacagctcg ctgccccgc atctgtgtct caatggccagc cacggcgctc tctgccccct cgggctcaag gtcacacatg tggggctcta cctggccgtg tgtgtcggag ggtcctctgg gaactgcctt gtcattgacg tcactctcag gcacacccaa atgaagacag ccaccaatat ttacatcttt aacctggccc tggccgacac tctgggtcctg ctgacgtgc ccttcacagg caggacatc ctcctgggtt tctggccgtt tgggaatgcg ctgtgcaaga cagtcatgac cattgactac taacacatgt tcaccagcac ctacaccta actgccaatga gtgtggatcg ctatgtagcc atctgccc ccactcgtgc cctcgacgtc cgcaactcca gcaagaccca ggtgtgcaat gtggccatct gggccctggc cctgtgttc ggtgttcccc ttgccatcat gggctcggca caggtcgagg atgaagagat cgagtgcctg gtggagatcc ctacccctca ggattactgg ggcctggtgt ttgccatctg catcttctc ttctcttca tctgccccgt gctcgtcatc tctgtctgct acagcctcat gatccggcgg ctcgtggag tccgctgct ctcgggtccc cgagagaagg accggaacct gcggcgcatc actcggctgg tctgtgtggt agtggctgtg ttctgtggtt gctggacgcc tgtccaggtc ttctgtcgtg cccaagggt gggggttcag ccgagccagc agactgcctg gccattctg cgcttctgca cggccctggg ctacgtcaac agctgcctca accccatctc ctacgcctc ctggatgaga acttcaaggc ctgcttccgc agttctgct gtgcatctgc cctgcgcgg gactgacagg tgtctgaccg cgtgcagc attgccaagg acgtggccct gccctgcaag acctctgaga cggtaaccgc gcccgcata ctaggcgtgg acctgccat ggtgcctgtc agcccgaga gcccatctac gcccacaca gagtcacac aggtcacctg tctctaggcg gacacacctt gggccctgag catccagagc ctggatgggg cttttccctg tgggccaggg atgctcggtc ccagaggagg acctagtac atcatgggac aggtcaaaagc attagggcca cctccatggc ccagagacaga ctaaaagctgc cctcctggg cagggccgag gggacacaa gacctacctg gaagcagctg acatgctgggt ggacggccgt tactggagcc cgtgccctc cctccccgtg cttcatgtga ccttggcct ctctgctgt cgttggcag aacctgggt gggcaggcac ccggaggagg agcagcagct gtgtcatcct gtgccccca tgtgtgtgt gctgtttgca tggcagggtt ccagctgctt tcagccctgt cagctctcct cagggcagct ggacagggtt ggacacggccc gggaagtga gcaggcagct ttcttttggg tggggacttg	Homo sapiens

209	3452	Opiate Receptor- Like 1 (OPRL1)	NP_000904.1	EVYGSHLQ NLSLLSPNHS LLPPLLINA SHGAFLPLGL KVTIVGLYLA P	Homo sapiens
				ccctgagctt ggagctgcca cctggaggac ttgctgttcc cgactccacc tgtgcagccg ggccacccc aggaagaagt gtccaggtgg gggctggcag tccctggctg cagaccccga gctggccctc ggaccgacc tctgaaggtt ttctgtgtgc tgcacgtgac aggcctcatc cctgactgca gcttactct gggcccaacc cccatttccc ttcaggagac cagcgagagg ccctggccat cctccagcg gtgcaatgaa ctatatgttg tggaccgtca acccagccct gcttctcagt gtggggcagg tgtctcagga cgaagcgcc cgtgaccac atgggcaagt ctgttcacaa agtggaggcc tctgttctct ggtcttgact gctctgtttg ggtgggagaa gattctctgg ggtgccccac atctcccaa ggctccctc acagctcttc cttgtctga agccagaggt cagtggccgt gctgtgttgc ggggaagctg tgtggaagga gaagctgggtg gccacagcag agtctgtctc tggggacgcc tgcctcatctt acaagctca agatggctct gtgtagggcc tgagcttgct gcccaacggg aggatggctt cacagcagag ccagcatgag gggtggggcc tggcagggt tgccttgagcc aaactgcaaa ggctgtgggtg gctgtgagga cactgcgggg gttg	
				VCVGGILGNC LVMYVILRHT KMKATNIYI FNLALADTIV LLTLPFQGTD ILLGFWPFGN ALCKTVIAID YNMFTSTFT LTAMSVDRYV AICHPIRALD VRTSSKAQAV NVAIWALASV VGVPVAIMGS AQVEDEIEC LVEIPTPDY WGPVEAICIF LFSFIVPVLV ISVCYSIMIR RLRGVRLLSG SREKDRNLRR ITRLVLVVA VFVGCWTPVQ VFVLAQGLGV QPSSETAVAI LRFCTALGYV NSCLNPILYA FLDENFKACF RKFCASALR RDVQVSDRVR SIAKDVALAC KTSETVPRPA	
210	3513	Ocular Albinism 1 (Nettleship- Falls) (OAL)	NM_000273	atgacccagg caggccggcg gggtccctgc acaccggagc cgcgtccgcg aacacagccc A atggcctccc cgcgcctagg gacctctgc tgcaccaagc gggacgcagc cagcagctc gtgctgagct tccagccgcg ggccttccac gcgctctgac tgggcagcg cgggctccgc ttggcgctgg gccttctgca gctgctgccc ggccgcggc cgcgaggccc cgggtccccc gcgacgtccc cgcgggcctc ggtccgcac ctgcgcgctg cgcgtgcctg cgaccttctc ggctgctgg gtatggtgat ccggtccacc gtgtggttag gattcccaaa tttgttgac agcgtctcgg atatgaacca cagggaatt cagtgccctg tttctgctg tgggagtgcg atgtggatcc agctgttcta cagtgccctg tctgtgtgac ttttttcta tgcagtggat gcttatctgg tgatccggag atcggcagga ctgagacca tctgtctgta tcacatcatg gcgtggggcc tggccacct gctctgtgtg gagggagccg ccatgctcta ctaccttcc gtgtccagggt gtgagcgggg cctggaccac gccatcccc actatgtcac catgtacctg ccccgtctgc tggttctcgt ggcaacccc atcctgttcc aaagacagt gactgcagt gcctctttac ttaaagggaag acaaggcatt tacacggaga acgagaggag gatggagcc gtgatcaaga tccgattttt caaaatcatg ctggttttaa ttattgttg gttgtcgaat atcatcaatg aaagcctttt attctatctt gagatgcaaa cagatatcaa tggaggttct ttgaaacctg tcagaaactgc agcaagacc acatggttta ttatgggaat cctgaatcca gcccaggat ttctcttctc ttggccttc tacggctgga caggatgcag cctgggtttt cagttctcca ggaaggagat ccagtggaa tcaactgaca cctcggctgc tgagggggct caccatccc cactgatgcc ccatgaaaac cctgcttccg ggaaggtgtc tcaagtgggt gggcagactt ctgacgaagc cctgagcatg ctgtctgaag gttctgatg cagcacaatt gaaattcaca ctgcaagtga atcctgcaac aaaaatgagg gtgacctgctg tctcccaacc	Homo sapiens

211	3513	Ocular Albinism 1 (Nettleship- Falls) (OAL)	NP_000264.1	catggagacc tatgaagggg atgtgctggg ggtccagacc ccatactct cagactcaac aatcttgggt ctttagaact gtgttctcac cttccaaca ctgcactgcc gaagtgtagc ggccccaaa ccttgctctc atccacagct agagcttctt cccgaagggc ctttaggata ggagaaaggg ttcattgcaca cactgtgag aatggaagag cccctccag accactctac agctgctcta gccttagtg ccactagaa gtgtgctgta aagtaagtgt aagtcacaca tccttgggga agtagttaa taaaatagtt atgactg HGDH	Homo sapiens
212	3544	UDP-glucose Receptor (KIAA0001)	NM_014879	gaacagtgtt acctggagc ctacaatgag aggtatttca aatgagatga agcatgactc A tcacagatga aggcctagac gcaggatctt taatggaaaa acactgggc cacttcaaga cgacaaacgc tcactgggca aaacaccttc actgaaaaa gacctcatat tatgcaaaaa aaatcttaag aggcctctgc cttcagaagt tacaagatga tcaattcaac ctccacacag cctccagatg aatcctgctc tcagaaacct ctgatactc agcagatcat tcctgtgctg tactgtatgg tcttcattgc gggaatccta ctcaatggag tgcaggatg gatattcttt tacgtgcccc gctctaagag ttctatcatc atcttcaag acattgttat tgcgactttt gtgatgagcc tgacttttcc ttccaagatc cttggtgact caggccttgg tcctgggcag ctgaacgtgt ttgtgtgcag ggtctctgcc gtgctcttct acgtcaacat gtacgtcagc attgtgttct ttgggctcat cagctttgac aggtattata aaattgtaaa gcctctttgg acttctttca tccagtcagt gattacagc aaacttctgt cagtatagat atggatgctc atgctcctcc ttgctgttcc aaatattatt ctaccaaac agagtgttag ggaggttaca caataaaaat gtatagaact gaaaagtga ctgggacgga agtggcaca agcatcaaac tacatcttcg tggccatctt ctggattgtg ttctctttgt taatcgtttt ctatactgct atcacaaaaga aaatctttaa gtcccacctt aagtcaagtc ggaattccac ttcggtaaaa aagaaatcta gccgcaacat attcagcatc gtgtttgtgt ttttgtctg tttgtacct taccatattg ccagaatccc ctacacaaag agtcagacc agctcatta cagctgccag tcaaaagaaa tcttgcgta tatgaaagaa ttcaactcgc tactatctgc tgcaaatgta tgcttgacc ctattattta ttcttttcta tgccagccgt ttagggaat cttatgtaag aaattgcaca ttccattaaa agtcagaaat ttccagaaat caaaagagga aatacaacac ttgaaagcac agatactttg tgagtctcta cctcttcca aagaaagacc acgtgtgcat gttgtcatct tcaattacat aacagaaatc aataagatat gtgccctcat cataaatatc atctctagca ctgccatcca attagttca ataaaattca aatataagtt tccatgcttt ttgttaacat caaagaaaac ataccatca gtaattctc taatactgac cttctctatc tctattaata aaaaattaat acatacaatt attcaattct attatattaa aataagttaa agtttataac cactagtctg gtcagttaat gtgaaattt aaatagtaaa taaaacacaa cataatcaaa gaaactcac tcaggcatct tcttctcta aataccagaa	Homo sapiens

213	3544	UDP-glucose Receptor (K1AA0001)	NP_055694.1	MINSTSTQPP	DESCQNLLI	TQIIPVLYC	MVFIAGILN	GVSGWIFFYV	PSSKSFIYIL	P	Homo sapiens
					KNIVIADEFM	SLTFPFKILG	DSGLGPMQLN	VFVCRVSAVL	FYVNMVYSIV	FFGLISFDRY	
					YKIVKPLWTS	FIQSVSYSKL	LSVIVWMML	LLAVPNILIT	NQSVREVTQI	KCIELKSELG	
					RWHKASNYI	FVAIFWIVFL	LLIVFYTAIT	KKIFKSHLKS	SRNSTSVKKK	SSRNIFSIVE	
					VFFVCFVPYH	IARIPYTKSQ	TEAHYSCQSK	EILRYMKEFT	LLLSAANVCL	DPIIYFFELCQ	
					PFREILCKKL	HIPLKAQNDL	DISRIKRGNT	TLESTDTL			
214	3582	Oxytocin Receptor	NM_000916		tgntaaaggct	ctgggaccaa	cgrtgggcga	acagatcccg	ctccggaggg	gtctgcgcgg	A
					ctggcctcgc	ccggcccca	cgggaccctg	cgatagtcg	agcctcagcc	ccaggccacag	
					cgccgatcc	agacccgctc	cgccgcgcga	gcctgggagc	cgctccctcg	tcgctccctg	
					taccatcca	cgacacagcc	agcctgcggc	gaggggattc	caaccaggcc	tccagtggag	
					gacctcagct	tagcatcaca	ttaggtgcag	ccggcagccc	atccccactc	ggcccgggag	
					cgccgcgctc	actggggccc	tcagtcgccc	tgcaactccc	ccggggggag	tcaacttttag	
					gttcgcctgc	ggactcgggtg	cagtggaaac	cgctgaacat	cccgagggaac	tgccacgctg	
					ggggctcttg	gcttgctggc	ggtagaggat	tcccgctcat	ttgcagtggc	tcagaggagg	
					gtggacccag	cagatccgctc	cgtagagtc	ccaggagtgg	agccccgggc	gccccctacac	
					cctccgacac	gccggatccc	gcccagccc	gccaagcgt	aaagggtcgc	aaggccgggg	
					cgccacgctg	ccgccaagggt	catggagggg	gcgctcgag	ccaactggag	cgccgaggca	
					gccaacgcca	gcgcgcgccc	gcccggggcc	gagggcaacc	gcaccgccc	acccccggg	
					cgcaacgagg	ccctggcgcc	cgtagagggtg	gcggtgctgt	gtctcatcct	gctcctggcg	
					ctgagcgggg	acgcgtgctg	gctgctggcg	ctgcgcacca	cacgccaaga	gcactcgcgc	
					ctctctctct	tcataagaca	cctaagcacc	gcgcacatgg	tggtggcagt	gtttcagggtg	
					ctgcgcgag	tgctgtggga	catcaccttc	cgcttctacg	ggccccacct	gctgtgcgc	
					ctggtcaagt	acttgcaagg	ggtgggcag	ttgcctcca	ctacactgct	gctgctcatg	
					tccttggacc	gctgcctggc	catctgcag	ccgctggcgt	cgctgcgcgc	ccgcaaccgac	
					cgccctggcag	tgctgcgccc	gtggctggcg	tgccctgggtg	ccagcgccc	gcaggtgcac	
					atcttctctc	tgccgcgagg	ggctgacggc	gtcttctact	gtggggccgt	cttcatccag	
					ccctgggggac	ccaaggccca	catcacatgg	atcacgctag	ctgtctacat	cgtagccggtc	

atcgtgctcg ctacctgcta cggccttata agcttaaga tctggcagaa tctgcggctc
aagaccgctg cagcggcggc ggccaggcgg ccagaggcgg cggcggctgg cgatgggggg
cgctggccc tggcgctgt cagcagcgtc aagctcatct ccaaggccaa gatccgcacg
gtcaagatga ctttcatcat cgtgctggcc ttcatcgtgt gctggacgcc ttcttcttc
gtcagatgt ggagcgtctg ggatgccaa agcctcggc cttcatcatc
gtcatgctcc tggccagcct caacagctgc tgcacccct ggatctacat cttgttcaag
ggccacctct tccacgaact cgtgcagcgc ttctgtgct gctccgcag ctacctgaag
ggcagacgcc tgggagagac gagtccagc aaaaagaca actcgtctc cttgtctcg
agccatcgca gctccagcca gaggagctgc tccagccat ccacggcgtg acccaccagc
caggccagg gctgcagcct gaggctcagg ctgtcctggc ataagtctc tgcctcagg
tgatggcgta tgtttgtgta taaggtaacct atcagtttgt atccctccc tccctggggt
ggcttcagtg gggtggagag tggcctccat gatggagat gataggagac tcagccatca
gacaacccc tggcctccta cagtaactc taccacctg acccactgc tgcctgggc
agtgaagtgc ttgtttttc tccctgactt gtaatttcac tccagtatat ttttacttct
tcattctggg atattgtgaa aagcggtaaa tataggattg gtgaccaatt gggtcaggaa
gtccagtgtt ctggacttgg ggtaagcagt ggggttggga cctcagatgg gaagggtggt
gctaagatcc tccagacctc aaagtgtatt tgccttaag cgaacaaatg ctggggtcct
tggggaccag cttgtcagag ggtagccta agagaagggt attacctgt aagaccatct
ggcgcagtgg acctattaga acttgggtta aaaaagtta agaagctaat gtttaagaag
catttgggaa agaaaaagaa ataatgttat ccagataggaa aaagaagaag taaaactatt
tgcagatgac acagttttgt atatagaaa tccataaggaa ctcacacaca cacacacaca
cacacacgca cacagctatt agaactaata agcaagtctc gcaagggttc aagatacaag
atcaatatac aaaaatgaat tgtatttctt tatactagca acaacaata tgaaacgaa
gttaataaat tccatttata ataccatcag aaagaataaa ataggaatca acttaacaaa
acaagtgcga gactgaaaac tacaaaattg gaaagaaatt aaagaaggct taaataaatg
gaaagacatc ctgtgttcat ggatcagact tagtatgtt aagatggcaa tactatccta
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tgataagcta gtcccaaat tcataagaa atgcaaggga ccagatatac caataaagcc
ttgaaaaaga acaaagtggg tggattcaca cttcctgatt tcataattta cgataaagg
aatcagctca gtgtgttact gggttaagga tagacatag gagcagaata aagagtacag
atatgaacac ttatacttac ggtcaattga tttttgaca ggttcccaag acaattcatt
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atgaggttgg accttactc acactatgtg caaaaactaa ctcaaacgc atccaagatc
taataataag agctgaactc ataaaacttt agaaagaact ataggcattg atctttgtta
ccttgaatta ggcagtgggt tcttagatat gataccaag acacaagcaa ccaatggaaa
aataggtaaa ttggacttaa tcaagatttg aagcttttgt gattgaaaag accctatcaa
gaaagtgaaa agataacctg cagaatggga gaaaatttt gcgagtcata tatatgataa
ggggcttgta tctggaatat ataaataact cttataaac acataaagg agaaaaataa
atcaatttaa aaaaatgggt aacgggttga atagacatt ctccaaagaa gatatgcata
tggctactaa gcacatgaaa aatactcaac attattatc attagggaa tgcaagtcaa
aatcaaatg agattccagt ttacaatcac taggatggct acaataaaaa gatggacaag

215	3582	Oxytocin Receptor	NP_000907.1	MEGALANWS AEAANASAP PGAENRTAG PPRNEALAR VEVAVLCIL LLALSGNACV P LLALRTTRQK HSRLEFFMKH LSIADLVAV FQVLPQLWD ITFRFYGPDL LCRLVKYIQV VGMFASTYLL LMSLDRLA ICQPLRLRR RTDRLAVLAT WLGCIVASAP QVHIFSLREV ADGVFDCWAV FIQWGPCKAY ITWITLAVYI VPIVILATCY GLISFKIWQN LRLKTAASAAA AEAPEGAAAG DGRVALARV SSVKLISKAK IRTVKMTFII VLAFIGWTP FFFVQMWVW DANAPKEASA FIIVMLLASL NSCNPWIMY LFTGHLFHEL VQRFCCSAS YLKGRRLGET SASKNSNSS FVLSHRSSQ RSCSQPSTA	Homo sapiens
216	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	NM_002564	cggcagcagg caccocgaga ggagagcgc agcgacgtgg cgagaggagc ccctgtgtgc A agcagcacta cctgccaga aaatgtctgg agcctggcg tgccccagg cctggggacc tggttttctt gtttcccgca gatttccctg cagcccggtc caggtccagg ggtgtgcatt catgagttag gaaccgtgc agcgctgag catcctacc tggagagcag cgtgtgtgca ggcgatggc agcagacctg ggcctctgga atgacacat caatggacc tggatgggg atgagctgg ctacaggtgc cgttcaacg aggaactcaa gtacgtgtg ctgctgtgt cctacggcgt ggtgtgctg cttgggctgt gtctgaacgc cgtggcgctc tacatcttct tgtgcgcct caagacctgg aatgcgtcca ccacatata gtccacctg gctgtgtctg atgcactgta tgcggcctcc ctgcgctgc tggcttatta ctacgccgc ggcgaccact ggccttcag caggtgtct tgcacagcg tgcaccggtg tctggcgctc ttacgacctc gcagcatcct ctctctacc tgcacagcg cgggcccgct acgctcgcc gctgtgtggg tgctctcct cggctgggc cgggcccgct tctacttctg caccaccag gcgcgcggg tggtggtgct ggcctggcag gccccgtgc cagagctctt cagccgctc gtggcctaca gccggtaac ctgccagac acctggcac cgtctcgcg tgcctcttc cgtcatcctt gtctgttacg gctcagtcac gctgggctg ctcttcgcg cctacgggac ctcggcgcc ctcctaggg tgctcatggc tcggcgactg ctaaagccag cctacgggac ctcggcgcc ctcctaggg ccaagcgcaa gtcggtgctg acctgcgcg tgggtgctg tgtcttcgc ctcgtctcc tgccattcca cgtcacccgc acctctact ctctcttcg ctgcgtggc ctcagctgc acacctcaa cgccatcaac atggcctaca aggttaccg gccgtggcc agtgctaaca gttgcttga cccgtgtct tacttctgg ctgggacag gctcgtacg tttgcccag atgccaaacc accactggc ccagccctg ccaccccgcc tcgccgagc ctgggctgc gcagatccga cagaactgac atgcagagga taggagatgt gttgggcagc agtgaggact tcaggcgagc agagtccacg ccggctggta gcgagaacac taaggacatt cggctgtagg	Homo sapiens

217	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	NP_002555.1	agcagaacac ttacagcctgt gcagggttat atggggaagc ttagaggagc caggacttgt gcagacgcca cagtcctccc agatattggac catcagtgac tcatgtcgtga tgaccccatg ctccgtcatt tgacaggggc tcaggatatt cactctgtgg tccagagtca actgttccca taacccttag tcatcggttg tgtgtataag ttgggggaat taagtttcaa gaaaggcaag agctcaaggt caatgacacc cctggcctga ctcceatgca agtagctggc tgtactgcca aggtacctag gttggagtc agcctaatac agtcaaatgg aaaaacaggc ccagagagga aggtggctta ccaagatcac ataccagagt ctgagactga ctactctggg gtgggggcca agtcacaggt tggccagaaa accctggtaa gtaatgaggg ctgagtttgc acagtgtct ggaatggact gggcgccacg gtgaccttag ctctgaggag taccocagc ccaagagatg aacatctggg gactaatatc atagacccat ctggaggctc ccattgggcta ggagcagtgt gaggctgtaa cttatactaa agtttgtgtt gcctgctaaa aaaaa MAADLGPWND TINGTWGDGE LGYHCRFENED FKYLPLPVSY GVVCVLGLCL NAVALYIFLC P RLKTNASTT YMFHLAVSDA LYAASLPLLV YYARGDHPV FSTVLCKLVR FLYTNLYCS ILFLTCISVH RCLGVLRPLR SLRWGRARYA RRVAGAVWVL VLACQAPVLY FVTSARGGR VTCHDTSAPL LFSRFVAYSS VMLGLLFVAV FAVILVCYVL MARRLLKPAY GTSGGLPRAK RKSVRTIAV LAVEALCFLP FHVTRTLAYS FRSLDLSCHT LNAINMAYKV TRPLASANSC LDPVLYFLAG QRLVRFARDA KPPTGSPAT PARRRLGLRR SDRTDMQRIG DVLGSSSEDFR RTESTPAGSE NTKDIRL	Homo sapiens
218	3595	Purinergic Receptor P2Y1	NM_002563	ccccctccc cggggatcca gttegcctgc tcccttcgc tcgctggctt ttccgatgct A tgctgcccc ctggcgccg ctgcctctct cgcgcctcct accctcggga gccgcgcct aagtcgagga gcagagaatg accgagtgct tgtggccggc tgtcccaac gggacggagc ctgccttctt ggccggtccg ggttcgtcct ggggggaacag cacgggtcgc tccactgccc ccgtctctc gtcttcaaa tgcgccttga ccaagacggg ctccagttt tactacctgc cggctgtcta catcttgta ttcatactg gcttctcggg caacagcgtg gccatctgga tgttcgtctt ccacatgaag cctggagcg gcatactcgt gtacatgttc aattggctc tgcccgactt ctgtactgtg ctgactctgc cagccctgat ctctactac ttcaataaaa cagactggat cttcggggat gccatgtgta aactgcagag gttcatcttt catgtgaacc tctatggcag catcttgttt ctgacatgca tcagtgccta ccggtacagc ggtgtggtgt acccctcaa gtccctgggc cggctcaaaa agaagaatgc gatctgtatc agcgtgctgg tgtggctcat tgtgtgggtg gcgatctccc ccactctctt ctactcaggt accggggtcc gcaaaaaaa aaccatcac tgttacgaca ccactcaga cgagtacctg cgaagttatt tcatctacag catgtgcag accgtggcca tgttctgtgt ccccttggtg ctgattctgg gctgttacgg attaatgtg agagctttga ttacaaga tctggacaac tctcctctga ggagaaaatc gattacctg gtaatacttg tactgaactgt ttgtgtgtg tcttacatcc ctttccatgt gatgaaacg atgaacttga gggcccgctt tgattttcag accccagcaa tgtgtgcttt caatgacagg ttttatgcca cgtatcaggt gacaagaggt ctagcaagtc tcaacagttg tgtggacccc attctctatt tcttggcggt agatactttc agaaggagac tctcccgagc cacaaggaaa gcttctagaa gaagtggagg aaatttgcaa tccaagagt aagacatgac cctcaatatt ttacctgagt tcaagcagaa tggagatata agcctgtgaa ggcacaagaa tctccaaaca cctctctgtt gtaatatgtt aggatgctta acagaatcaa gtactttcc cctctttaac ttcttagttt agaaaaaaat caaaccaaga aaatagttag	Homo sapiens

219	3595	Purinergic Receptor P2Y1	NP_002554.1	<p> ttaaataat aatagaagta gaaatgccc catccacact tagcttggtt gggtttgctt tcacagtctc tcttcctct gactagaagt atgtataata aaacaatact acctagttaa acatttactt tctcttttgc ctttaaaatg tgcaggcttt tctgttttaa gtgtgtgtgc acatgagtac tggggctggt tttgatatta gtaatttctc taagaaaaact agccccctgc aacttgagtt tgtggtttat ctagccttta ttgtttttt aaatccaca gtaggataa aaaatctata ttctcagaaa tatctagcat ggtatataac aaacactaa actcatcagt tcacccggca tcagatcaat ggtctctga gcgggtggtt tttttcagt tcttataagc atagatgata gttgactgag ttcttttagg cattgaata gacaaagtaa gctaatgaat ttaaagcct gaaaagtga tttttccag ttatttctg aaaaggtctc attatatatt gggtgctaaa tgtttgatgg gaaaagcctg catatatatt cgtactggta aaatgcattc aaaataatta aagtgcattg attttcctg taaacacat gactctctt agacatcttg tgataaagag catttactg cccactgct gtgcaatgcc ttaggacttt gtttggttc caggacaagt gttcactcac atctgtaaa acaatttaa gaattgcaaa taaattacag accaagatt gagtaagtc aaataactgt tagtaagtgg aagatatgg gacaggagga cagtatttca gaaaaggaga ggtgacagt catccacaag catagcctc caagtatact ctcaaatgta tgaagcaact ggggtgggca gaagacatt tagaatgag gcctttagtt taaattaaag tcatgtgga gaagactctt gctccacca agtgtttgaa aacacaaaat acgatataa aaaaaaaaaa aaa MTEVLPAPV NGTDAAFLAG PGSSWGNSTV ASTAAVSSSF KCALTKTGQ FYLPAVYIL P VFIIIGFLNS VAHMFVFM KPWGSIIVYM FNLAADFLY VLTLPALIFY YFNKTDWIFG DAMCKLQRFI FVNLVYGSIL FLTCSIAHRY SGWVYPLKSL GRLKKNAIC ISVLVWLIV VAISPILFYS GTGVRKNKTI TCYDTSDEY LRSYFIYSMC TTVAMFCVPL VLILGCYGLI VRALIYKDLN NSPLRRKSIY LVIIIVLTFVA VSIYFHVNMK TMNLRLARLF QTPAMCAFND RVYATYQVTR GLASLNSCVD PIIYFLAGDT FRRLSRATR KASRRSEANL QSKSEDMTLN ILPEFKQNGD TSL </p>	Homo sapiens
220	3596	Purinergic Receptor P2Y5	NM_005767	<p> ctgatgaag tgcctccaaa ctgaaaaatg gacgtgcctt tacgatggta agcgtaaaca A gtcctccactg cttctataat gactccttta agtacacttt gtaggggtgc atgttcagca tgggtgttgt gcttggtgta gtatccaatt gtgttgccat atacattttc atctgcgtcc tcaaagtccg aaatgaaact caaacttaca tgataaactt ggcaatgtca gacttgcttt ttgtttttac ttacccttc aggtattttt acttcacaac acggaattgg ccatttggag atttactttg taagatttct gtgatgctgt ttataccaa catgtacgga agcattctgt tcttaacctg tattagtga gatcgatttc tggcaattgt ctaccattt aagtcaaaaga ctctaagaac caaaagaaat gcaaagattg ttgcaactgg cgtgtgggta actgtgatcg gaggaaagtgc accgcctgt ttgttctagt ctaccactc ctagggtaac aatgcctcag aagcctgctt tgaataattt ccagaagcca catggaaaaa atatctctca aggattgtga ttttcatcga aatagtggga ttttttattc ctctaattt aaatgtaact tgttctagta tgggtgctaaa aactttaacc aaaccagtta cattaagtag aagcaaaaata acaaaaacta agggtttaaa aatgattttt gtacatttga tcatattctg ttctgtttt gtcccttaca atatcaatct tattttatat tctcttctga gaacacaaa atttgttaat tgcctcagtag tggcagcagt aaggacaatg taccacaatca ctctctgtat tgcgttttcc aactgttgtt ttgaccttat agtttactac ttacatcgg acacaattca gaattcaata aaatgaaa </p>	Homo sapiens

221	3596	Purinergic Receptor P2Y5	NP_005758.1	actgggtctgt caggagaagt gacttcagat tctctgaagt tcatgtgtgca gagaatttta ttcagcataa cctacagacc ttaaaaagta agatattga caatgaatct gctgcctgaa ataaaacat taggactcac tgggacagaa ctttcaag MSDLLEVFTL YNDSFKYTL GCMFNMVFL GLVSNCAIY IFICVLKVRN ETTYMINLA P PFKSTLRTK RNKIVCTGV WLTVIGGSAP AVFQVTHSQ GNNASEACFE NFPEATWKTY LSRIVIFIEI VGFFIPLIN VTCSSMVLKT LTKPVTLSRS KINKTKVLKM IFVHLIIFCF CFVPYNINLI LYSIVRTQTF VNCSSVAAVR TMYPIILCIA VSNCCFDPV YFTSDTIQN SIKMNWSVR RSDRFSEVH GAENFIQHNL QTLKSKIFDN ESEA	Homo sapiens
222	3597	Purinergic Receptor P2Y6	NM_004154	aaggacagag gagggccct tctgtcagc tggctggag cagaggtggc tttgtctttt A cggaagaact ggttctgtg aattgtgct tatttcccat caaggatcaa ggacctgctc tggggctacc tcaggggccc acaggatgag gggctggttt tcagatgagt tttctgcttg cctgtcatct ggaatgtgtc taaaaattg caaactgctt tctgtcagt gcttgcctc ttcttcata gactcctgat atgtctctca gtttctctat ctgctgctc tccagacttc tggcagaaca ttgcacgga cagtttcagg cacagaaactg actggcagca ggggctgctc cacgagtgg aattgtctc agcacttcac ggactgcaag cgaggcaact gtaactctt ggataacaag acctctgcca gaagaacctat ggttttggaa ggcggagttc aggtgagga gatgggtgag gtcctcagt agccctgccc tccctgaaca taggaaaccc acctgggca ccatggaatg ggacaatggc acaggccagg ctctggggtt gccacccacc acctgtgct accgcagaa cttcaagcaa ctgctgctgc cactctgta ttcggcggtg ctggcggtg gctgcccgt gaacatctgt gtcattacc agactgtgac gctcccgccg gccctgacc gcacggccgt gtacacctc aacctgtctc tggctgacct gctatatgcc tgcctcctgc ccctgctcat ctacaactat gcccaagtg atcactggc ctttggcgac ttcgctgccc gcctggtccg ctctctctc tatgccaacc tgcacggcag cactctctc ctacactgca tcagcttcca gcgtacctg ggcactgccc acccgctggc cccctggcac aaactgggg gccgcccggc tgcctggcta gtgtgtgtag ccgtgtggct ggccgtgaca acccagtgc tgccacagc catctctgct gccacaggca tccagcgtaa ccgactgtc tgcctgacc tcagcccgc tgcctggcc acctatata tgcctatgg catggctctc actgtcactg gcttctgtct gcccttctg cccctgctgg cctgctactg tctcctggcc tgcgcccgt gccgcccagg tggcccggca gagcctgtgg cccaggagcg gcgtggcaag gcggcccga tggccgtggt ggtggctgct gcccttgcca tcagcttctt gccctttcac atcacaaga cagctacct ggcagtgcg tcgacgcgg gcgtcccctg cactgtattg gagcccttg cagcggccta caaaggcag cgccgctttg ccagtgccea cagcgtgctg gacccatcc tcttctactt caccagaag agttccgccc ggcgaccaca tgagctccta cagaaactca cagccaaatg gcagaggcag ggtcgtgag tctctcaggt cctgggcagc cttcatattt gccattgtgt ccggggcacc agagccccc ccaaccccaa accatgcgga gaattagagt tcagctcagc tgggcatgga gtaagatcc ctacaggac ccagaagctc accaaaact attcttcag cccctctctt ggcccagacc ctgtgggcat ggagatggac agacctggg ctggctcttg agaggctcca gtcagccatg gagagctggg gaaaccacat taaggtgctc acaaaaatac agtgtgacgt gtactgtcaa aa	Homo sapiens

223	3597	Purinergic Receptor P2Y6	NP_004145.1	MEWDNGTGQA LGLPPTTCVY RENFKQLLLP PVYSAVLAAG LPLNICVITQ ICTSRRALTR P	Homo sapiens
224	3599	G Protein- Coupled Receptor 23 (GPR23)	NM_005296	TAVYTLNAL ADLYACSLP LLIYNYAQGD HWPFGDFACR LVRELYANL HGSILELTCI SFQYILGICH PLAPWHKRG RRAAWLVCVA VWLAVTTOCL PTAIFAATGI QNRRTVCYDL SPPALATHYM PYGMALTVIG FLPLPAALLA CYCLACRLC RQDGPAPVA QERRGKAARM AVVVAFAAI SELPFHITKT AYLAVERSTPG VPCTVLEAFA AAYKGRPFA SANSVLDPII FYTQKKERR RPHELLQKLT AKWQRQGR cctaccgggtc catagtgtca gagggtgaa cccctgcagc cagcagcgct cctgaaaaaa A aagtcaccagtg tgacagagaag attcattgac ttccattcc aagattcaaa ttcaagcctc agaccaggt tgggcaatgc tactgcaat aatactgca ttgttgatga ttccctcaag tataatctca atggtgctgt ctacagtgtt gtattcatct tgggtctgat aaccaacagt gtctctctgt ttgtctctgt ttccgcatg aaaaatgagaa gtgagactgc tatttttacc accaatctag ctgtctctga ttgtctttt gtctgtacac taccttttaa aatattttac aactcaacc gccactggcc ttgtgtgac accctctgca agatctctgg aactgcattc cttaccaca tctatgggag catgctcttt ctacactgta ttagtgtgga tegtctcctg gccattgtct atccttttgc atctgtact attagacta ggaggaaattc tgccattgtg tgtctgggtg tctgtatcct agtctcagc ggcggtattt cagcctcttt gtttccacc actaatgtca acaatgcaac caccactgc ttgtgaaggct tctcaaacg tgtctggaag acttatttat ccaagatcac aatatttatt gaagtgttg gttttatcat tctcttaata ttgaatgtct ctgtctcttc tgtgtgtgctg agaactcttc caagcctgc tactctgtct caaattggga ccaataagaa aaaagtactg aaaaatgata cagtaacatc ggcagctctt gtgtatgtct ttgtacccta caactctgc ctctctctgt atgcccgtgt gcgtcccaa gctattacta attgcttttt ggaaagattt gcaaatgata tgtacccaat caccttgtgc cttgcaactc tgaactgttg ttgtgacct ttcatctatt acttacctt tgaatcctt cagaagtctt tctacatcaa tgcacatc agaattgagt ccctgtttta gactgaaaa cctttgacca caaagccttc ccttcagct attcaagagg aagtgtgga tcaaacaca aataatggtg tgaattaat gctagaatcc accttttagg tatgagaaat gtgttcaggt ccagatatgg ttctctctat aattttctct atgctataaa cttaaagattt gaagctaattg atactgagaa taatgcacca aatccagtca gatacatctg ttggaaggtta tactgtagag tttttattgc tgtttgttc agtaattata ggtcaaatct aattacaaca accaagatgg attgccaaac tcttctgctt ggttggaatt tcatgtatc gcattatcca ggtggctagt ggcatttgat aatatagaga tgactttgaa actttcaaaa aggtatttct attccaatga tatttggtaa ttagggtggg cctataaata tagaacaatt tcagggattt taaaaaatt gtgttactac tgatatatgc tagtttttatt ttattttttt ggaactgtcat tgagtttatt ttagcacaag aatattttta gcctaactt aataaaga aatgtgtcaa atttttaaca ttgttaaaat atgttatgtg cattttgaaa acagaaaaa aatgtgttg gcattgtcgt gggtgggaag aaaaaaataa ttaacagat ttacacaatt ataatacaca gcagtgtgag tttaaaaaa ttcgtgtgtt ttacaccaa ttaaaattt catgtcaaac ttcaaaagcca gaaagtgtc aatacgtgt ctggcaggt aagctggaa aattactaa aacaggaaa tgtcaataa aaaacttgag caacaccaa atatttttc taaaaatgc acgttatctt cattttggga aactaggtc tataaaatat ttatctctcc tgtttactt tggagcacag cacagccaga aaggggctgc atttggccc aggtcaggag caaattgaaa aaaaaataa	Homo sapiens

225	3599	G Protein- Coupled Receptor 23 (GPR23)	NP_005287.1	<p>agtaatacta aaaaatcaaa ctataaaccc aaacattta ttaaacctg aattaatcct ttdtgaggagg agtagtagag atataaacc tgaataact tattcttct tategaattt tggagcctaa tatagccagg agtgcctgaa tttgtgcccc tggattggaa ccaataaaaa aaaaaaaaa aaaaattcct</p> <p>MGDRRFIDFQ FQDSNSSLRP RLGNATANNT CIVDPSFKYN LNGAVYSWVF ILGLITNSVS P LFVFCFRMKM RSEITAFITN LAVSDLLFVC TLPFKIFYNF NRHPFGDTL CKISGTAFLT NIYGSMLFLT R5IVDRFLAI VYFPRSTIR TRRNSAIVCA GWILVLSGG ISASLFSTTN VNNATTTCFE GFSKRVWKTY LSKITIFIEV VGFILPLIN VSCSSVVLRT LRPKATLSQI GTNKKKKVLKM ITVHMAVFW CFVPYNSVLF LYALVRSQAI TNCFLERFAK IMYPITLCLA TLNCCFDPEI YYFTLESFOK SFYINAHIRM ESLEKTETPL TTKPSLPAIQ EEVSDQTNN GGELMLESTF</p>	Homo sapiens
226	3638	Parathyroid Hormone Receptor 2 (PTH2)	NM_005048	<p>ggccggtggc ccgggcccga ccaccacagc tgcgcgtcgt tactggccac aagttgtctc A tgggccagcc aagttggcaa cttggaagct tctccgggc tctggaggag ggtccctgct tcttcttaca gccgttccgg gcatggccgg gctggggcgg tgcgtccacg tctggggttg gctaagtctc gccagctgcc tccgtgccag agcccagctg gattctgatg gcaccattac tatagaggag cagattgtcc ttgtgctgaa agcgaagta caatgtgaac tcaacatcac agctcaactc caggaggagg aagtaattg ttccctgaa tgggatggac tcatttgttg gcccagagga acagtgggga aaatatcgcc tgttccatgc cctccttata tttatgactt caaccataaa ggagttgctt tccgacactg taaccccaat ggaacatggg attttatga cagcttaaat aaacatggg ccaattattc agactgcctt cgccttttgc agccagatat cagcatagga aagcaagaat tctttgaacg cctctatga atgtataccg ttggctactc catctctttt ggttcccttg ctgtggctat tctcatcatt ggttacttca gacgattgca ttgcactagg aactatatcc acatgcactt atttgtgtct ttcatgctga gagctacaag catctttgtc aaagacagag tagtccatgc tcacatagga gtaaaaggagc tggagtccct aataatgcag gatgaccac aaaaattccat tgaggcaact tctgtggaca aatcacataa tatcgggtgc aagattgctg ttgtgatgtt tatttacttc ctggctacaa attattattg gatcctggtg gaagggtctc acctgcataa tctcatctt gtggttctt ttcggacac caaataccctg tggggcttca tcttgatagg ctgggggttt ccagcagcat ttgttgcagc atgggctgtg gcacgagcaa ctctggctga tgcgagggtgc tgggaactta gtgctggaga catcaagtgg attatcaag caccgatctt agcagctatt gggctgaatt ttattctgtt tctgaatacg gttagagttc tagtaccac aatctgggag accaatgcag ttgggcatga cacaagggaag caatacagga aactggccaa atcgacactg gtccctgtcc tagtctttgg agtgcattac atcgtgttgc tatgcctgcc tcaactcctc actgggctcg ggtgggagat ccgcatgcac tgtgagctct tcttcaactc ctttcagggt ttctttgtgt ctatcatcta ctgctactgc aatggagagg ttccagcaga gttgaagag atgtggagtc ggtggaatct ctccgtggac tggaaaaagga caccgccatg tggcagccgc agatcggtc cagtgtctac caccgtgacg cacagacca cagccagtc acaggtggc gcagcacac gcatggtgct tatctctggc aaagctgcca agatcgccag cagacagcct gacagccaca tcactttacc tggctatgtc tggagtaact cagagcagga ctgcctgcca cactctttcc acgaggagac caagggaagat agtgggaggc agggagatga tattctaag gagaagcctt ccaggcctat ggaaatctaac ccagacactg aaggatgcca aggagaaact gaggatgttc tctgaatgga</p>	Homo sapiens

Homo
sapiens

227 3638 Parathyroid NP_005039.1 MAGLGASLHV WGWLMLGSL LARAQLSDG TITIEQIVL VLKAKVQCEL NITAQLQEGE P
Hormone GNCFFWDGL ICWPRGTGK ISAVPCPYI YDFNHKGVAF RHCNPNGTWD FMHSLNKTWA
Receptor 2 NYSDCLRFQ PDISIGKEF FERLYMYTV GYSISFGSLA VAILIIGYFR RLHCTRNYIH
(PTH2) MHLFVSFMR ATSIKVDV VHAHIGVKEL ESLIQDDPO NSIEATSDK SQYIGCKIAV
VMFIYFLATN YWILVEGLY LHNLFVAF SDTKYLGFI LIGWGFPAF VAAWAVARAT
LADARCWELS AGDIKWIYA PILAAIGLNF ILFLNTVRV ATKIWETNAV GHDRKQYRK
LAKSTLVLV VFGVHYIVF CLPHSFTGLG WEIRMHCELF FNSFQGFVS IICYCNGEV
QAEVKHMSR WNLSDWKRT PPCSRRCS VLTTVTHSTS SQSQAASR MVLISGKAAK
IASRQPDHI TLPGYVWSNS EQDCLPHSEH EETKEDSGRQ GDDILMEKPS RPNESNPDTE
GCQGETEDVL

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sapiens

228 3640 Parathyroid NM_000316
Hormone cggagggagc cggccctagg cgggtggcgt ggggaccgcc cggatcgac cgggcctggc A
Receptor 1 gctcctgctc tgctgcccgc tgctcagctc cgcgtacgc ctggtggat cagatgacgt
(PTH1) catgactaaa gaggaacaga tcttctgct gacccgtgct caggcccagt gcgaaaaacg
gctcaaggag gtcctgcaga gcccagccag cataatggaa tcagacaagg gatggacatc
tgctccaca tcagggaagc ccaggaaaga taaggcatct gggaagctct accctgagtc
tgaggaggac aaggaggcac ccactggcag caggtaccga gggcgcctct gctgcccga
atgggaccac atcctgtgct gcccgtggg ggcaccagg gagggtggg ctgtgcccctg
tccggactac attatgact tcaatcaca agccatgcc taccgacgt gtgaccgcaa
tggcagctgg gagctggtgc ctgggcacaa caggacgtgg gccaaactaca gcgagtgtgt
caaatcttc accaatgaga ctggtgaacg gtaggtgttt gaccgcccgt gcattgattta
caccgtgggc tactcctgt ccctggcgtc cctcaccgtta gctgtgctca tctgggacct
ctttaggcgg ctgcaactga cgcgcaacta catccacatg cactgttcc tgtccttcat
gctgcgcgcc gtgagcatct tcgtcaagga cgtgtgtct tactctggcg ccacgcttga
tgaggctgag ggcctcacg aggaggagt gcgcgccatc gccaggcgc ccccgccgc
tgccaccgc gctgcggct acgcgggctg cagggtggct gtgaccttct tctttactt
cctggccacc aactactact ggattctggt ggaggggctg tactgcaca gcctcatctt

229	3640	Parathyroid Hormone Receptor 1 (PTHRI)	NP_000307.1	<p>catggccttc ttctcagaga agaagtaacct gtggggcttc acagtcttg gctggggctc gcccgtgtc ttctgggtg ttgtgggtcag tgtcagagct accctggcca acaccgggtg ctgggacttg agctccggga acaaaaagtg gatcatccag gtgcccattc tggcctccat tgtgtcaac ttcatcctt tcatcaatat cgtccgggtg ctgcccacca agctgcggga gaccaacgcc ggcctgtgtg acacacggca gcagtaccgg aagctgtcca atccacgct ggtgtcatg cccctctttg gcgtccacta cattgtcttc atggccacac catacacga ggtctcagg agcctctggc aagtcagat gcactatgag atgtcttca actccttcca gggattttt gtgcgaatca tatactgtt ctgcaatggc gaggtacaag ctgagatcaa gaaatcttgg agcgcgtgga cactggcact ggacttcaag cgaaggccac gcagcgggag cagcagctat agctacggcc ccattgtgtc ccacacaagt gtgaccaatg tcggcccccg tgtgggactc ggcctgcccc tcagcccccg cctactgcc actgccacca ccaacggcca ccctcagctg cctggccatg ccaagccagg gacccagcc ctggagacc tcgagaccac accactgcc atggctgtc ccaaggacga tgggttctc aacggctct gctcaggcct ggacgaggag gcctctgggc ctgagcggcc acctgcctg ctacaggaa agtgggagac agtcattgta ccaggcgtg ggggctggac ctgctgacat agtggatgga cagatggacc aaaagatggg tgggtgaatg atttccact cagggcctgg ggcacaagg aaaaacagg aaaaaagaa aaaaaaaga aaaagaa</p>	Homo sapiens
230	3732	PACAP Receptor Type 1	NM_001118	<p>VTKEEQIFL LHRAQACEK RLKEVLQRP P SEEDKEAPG SRYGRPCLP EWDHILCWPL NGSWELVPGH NRTWANYSEC VKFLTNETRE YFRLHCTRN YIHMHLFSF MLRAVSIFVK PATAAAGYAG CRVAVTFFLY FLATNYIWL LPVAVVAV SVRATLANTG CWDLSSGNKK ETNAGRCDDR QYRKLLKST LVIMPLFGVH QGFVAILYC FCNGEVQAEI KKSWSRWTLA RVGLGLPLSP RLLPTATTNG HPQLPGHAKP LDEEASGPER PPALLQEEWE TVM</p> <p>agccccagaga cacattgggg ctgacctgcc gctgctgca gtggaggcc agtgggtgctg A gccaagaagt gtcattggctg gtgctgtgca cgtttccctg gctgtcact gcggggcctg tccgtggggc cggggcagac tccgcaagg acgcgcagcc tgcaagtccg cggcccagag acacattggg gctgacctgc cgtgctgtc agtggaggc cagtgggtgct ggcacaagaag tgtcatggct ggtgtcgtgc acgttccct gctgctctc ctctgctgc ctatggcccc tgccatgcat tctgactgca tctcaagaa ggagcaagcc atgtgcctgg agaagatcca gagggccaat gagctgatgg gcttcaatga tctcttcca gctgtcctg ggaatgtgga caacatcacg tgttgaagc ccgcccatgt ggtgagatg gtccctgtca gctgccccga gctcttcga atcttcaacc cagaccaagt ctgggagacc gaaacattg gagagtctga tttgggtgac agtaactcct tagatctctc agacatgga gtggtgagcc ggaactgcac ggaggtggc tggtcggaac ccttccctca ttactttgat gcctgtgggt ttgatgaata tgaatctgag actggggacc aggattatta ctacctgca gtgaaggccc tctacacggt tggctacagc acatccctg tcacctcac cactgccatg gtcactctt gtcgcttccg gaagctgac tgacacagca acttcatcca catgaacctg ttgtgtctg tcatgtctgag</p>	Homo sapiens

231	3732	PACAP Receptor Type 1	NP_001109.1	<p>ggcgatctcc gtcttcatca aagactggat tctgtatgag gacgaggaca gcaaccactg</p> <p>cttcattccc actgtggaat gtaaggccgt catggttttc ttccactact gtgtgtgtgc</p> <p>caactacttc tggctgttca tcgagggcct gtacctcttc actctgctgg tggagacatt</p> <p>cttccctgaa aggagataact tctactggta caccatatt ggctggggga ccccaactgt</p> <p>gtgtgtgaca gtgtgggcta cgttgagact ctactttgat gacacaggct cctgggatat</p> <p>gaatgacagc acagctctgt gggtgggtgat caaaggccct gtggttggtt ctatcatggt</p> <p>taactttgtg cttttttatg gcattatcgt catcctgttg cagaaacttc agtctccaga</p> <p>catgggaggc aatgagtcca gcattactt gcgactgccc cggctccacc tgctgctcat</p> <p>cccactattc ggaatccact acacagtatt tgcctctcc ccagagaaatg tcagcaaaag</p> <p>ggaagacttc gtgttgagc tggggctggg ctccctccag gcttttggtg tggtgtttct</p> <p>ctactgtttt ctgaatgggtg aggtacaagc ggagatcaag cgaataatggc gaagctggaa</p> <p>ggtgaaccgt tacttcgctg tggacttcaa gcaccgacac ccgtctctgg ccagcagtgg</p> <p>ggtgaatggg ggcaccagc tctccatcct gagcaagagc agctcccaaa tccgcatgtc</p> <p>tgccctccct gctgacaatc tggccacctg agccatgtc ccct</p>	Homo sapiens
				<p>WCWPRSVNAG P</p> <p>VVHVSIAALL LLPMAPMHS DCIFKKEQAM CLEKIQRANE LMGFNDSSPG CPGMWDNITC</p> <p>WKPAHVGEV LVSCPELFRI FNPQVWETE TIGESDFGDS NSLDLSDMGV VSRNCTEDGW</p> <p>SEFPFHYFDA CGFEYESET GDQDYVYLSV KALYTVGYST SLVTLTTAMV ILCRFRKLHC</p> <p>TRNFTHNLF VSFMLRAISV FIKDWILYAE QDSNHCFTST VEKAVMVFF HYCVSVNFW</p> <p>LFIEGLYLF LLVETFFPER RYFYWYTIIG WGTPTVCVTV WATRLYFDD TGCWDMNDST</p> <p>ALWWIKGPV VGSIMVNFV FIGIIVILVQ KIQSPDMGN ESSIYLRAR STLLILPLFG</p> <p>IHYTVFAFSP ENVSKRERIV FELGLGSFQG FVAVLYCFL NGEVQAEIKR KRSWKVNRY</p> <p>FAVDFKRRHP SLASSGVNGG TQLSILKSS SQIRMSGLPA DNLAT</p>	
232	3844	Apelin Receptor	NM_005161	<p>atggaggaag gtggtgattt tgacaactac tatggggcag acaaccagtc tgagtgtgag A</p> <p>tacacagact ggaatccctc gggggccctc atccctgcca tctacatgtt ggtcttccctc</p> <p>ctgggcacca cgggaaacgg tctggtgctc tggaccgtgt ttcggagcag ccgggagaag</p> <p>aggcgtcag ctgatatctt cattgctagc ctggcggttg ctgacctgac ctctgtggtg</p> <p>acgctgccc tgtgggtac ctacacgtac cgggactatg actggccctt tgggaccttc</p> <p>ttctgcaagc tcagcagcta cctcatcttc gtcaacatgt acgccagcgt ctctgcctc</p> <p>accggcctca gcttcgaccg ctacctggcc atcgtgaggc cagtggccaa tgctcggtg</p> <p>aggctcgggg tcagcggggc cgtggccacg gcagttcttt ggtgctggc cgcctcctg</p> <p>gccatgcctg tcatgtgtgt acgcaccac gggtacttgg agaaccac taagggtgcag</p> <p>tgctacatgg actactccat ggtggccact gtgagctcag agtggcctg ggaggtgggc</p> <p>cttgggggtct cgtccaccac cgtggcttt gtggtgacct tcaccatcat gctgacctg</p> <p>tacttcttca tgcgcccaac catcgctggc cacttccga aggaacgat cgagggcctg</p> <p>cggaaagggc gccggctgct cagcatcacc gtggtgctgg tggtagcctt tgccctgtgc</p> <p>tggatgccct accacctggt gaagacgtg tacatgtgg gcagcctgct gactggccc</p> <p>tgtgactttg acctcttct catgaacatc ttccctact gcacctgcat cagctacgtc</p> <p>aacagctgcc tcaaccctt cctctatgcc ttttctgacc cccgcttccg ccaggcctgc</p> <p>acctccatgc tctgctgtgg ccagagcagg tgcgcaggca cctccacag cagcagtggg</p> <p>gagaagtcat ccagctactc ttcggggcac agccagggg cgggccccaa catgggcaag</p>	Homo sapiens

233	3844	Apelin Receptor	NP_005152.1	<p> tag ggtggagaac agatgcacga gaaatccatc cctcacagcc aggagaccct tgtggttgac MEKGGDFDNY YGADNQSECE YTDWKSSGAL IPAIYMLVFL LGTTGNGLVL WTVFRSSREK P RRSADIFIAS LAVADLTFV TLPLWATYTY RDYDWPFGTF FCKLSSYLIF VNMVASVFCL TGLSFDRYLA IVRPVANARL RLRVSGAVAT AVLWVLAALL AMPVMVLRTT GDLENTTKVQ CYNDYSMVAT VSSEWAVEVG LGVSSTTVGF VVPFTIMLTC YFFIAQTIAG HFRKERIEGL RKRRRLLSII VLVVTFALC WMPYHLVKTL YMLGSILLHP CDFDLFLMNI FPYCTCISYV NSCLNPFLYA FFDPRFRQAC TSMLCGQSR CAGTSHSSG EKSASYSSGH SQGPSPNMKG GGEQHEKSI PYSQETLVD </p>	Homo sapiens
234	3845	Chemokine- Like Receptor 1 (CMKLR1)	NM_004072	<p> gaattcggca cgagtcaggg aagcagcccc ggcggccagc agggagctca ggacagagca A ggtccctcgg gaagcctccg ggtgataggg gtgtccagc tgcggcgctc tgggggttca gaggggagtc ttgaatgaac aatgaatga actgctttct gggcaaacag ccacagccag aggagcctgt gattggcaga aagaagccag ggtgtgcaag tctcccaac agcctcgagt ggcctgcagt cacaggggaa cctcaggaag acctccggg cagagaccag agggaagccc atctctccag cagaactgct tggatttttc taccaggag ctcagggctc tgcaacaatg atagcagaag ctgatggcat ctagagatct aggcctggac tagcacagca tcacttctac cactttctgt tggtcacagc aactcaccat gccagtgcag attcaagggg aggagaaata ggtccactt cttgatggga ggcgtgacat agaattgagg atgaagatta caacacttcc atcagttacg gtgatgaata cctgattat ttagactcca ttgtggtttt ggaggactta tcccccttg aagccagggt gaccaggatc ttccctggtg ttgtctacag catcgtctgc ttctctggga ttctgggcaa tggctggtg atcatattg ccacttcaa gatgaagaag acagtgaaca tggctctggt cctcaacctg gcagtgagc atttccctgt caactcttc ctccaatcc atataccta tgccgcatg gactaccact gggttttcgg gacagccatg tgcaagatca gcaacttct tctatccac aacatgttca ccagcgtctt cctgctgacc atcatcagct ctgacgcgtg catctgtg ctctccctg tctggtccca gaaccaccgc agcgttcgcc tggcttacct ggcctgcag gtcatctggg tcttggtctt ctcttgagt tccccatctc tctgtctccg ggacacagcc aacctgcatg ggaataatc ctgcttcaac aacttcagcc tgtccacacc tgggtcttcc tctgtgccc ctcactcca atggacctt gtgggtata gccggcacat ggtggtgact gtcacccgt tctctgtgg ctctctggtc ccagtcctca tcatcacagc ttgctacct accatcgtgt gcaaaactgca gcgcaaccgc ctggccaaga ccaagaagcc ctccaagatt attgtgacca tcatcattac ctcttctctc tctgtgtgcc cctaccacac actcaacctc cttagagctc accacactgc catgctctgc tctgtcttca gcctgggttt gccccctggcc actgccccctg ccattgcca cagctgcag aaccccatc tctatgttt catgggtcag gacttcaaga agttcaaggt ggcctctctc tctgcctgg tcaatgctct agtgaagat acaggcaact ctctctacc cagccataga agctttacca agatgtcatc aatgaatgag aggacttcta tgaatgagag ggagaccggc atgctttgat cctcactgtg gaacccctca atggactctc tcaacccagg gacacccaag gatattgtct ctgaagatca aggcaagaac ctcttttaga tccaccaatt ttcactgcac ttgcatggg atgaacagt ttttatgctg ggaatctagg gcttgaacc cctttctctt agtggacaga acatgctgtg ttccatacag ccttggacta gcaatttatg ctctctggga gcccagcctt gactgactca aagcaaaaaa ggaagaattc </p>	Homo sapiens

235	3845	Chemokine- Like Receptor 1 (CMKLR1)	NP_004063.1	MEDEDYNTSI IIATFKMKKT MFTSVFLTI LHGKISCENN IVCKLQRNRL ALAIANSCMN TSMNERETGM	1	SYGDEYPDYL VNMVWFLNLA ISSDRCISVL FSLSTPGSSS AKTKKPFKII PILYVFMGQD FKKFKVALFS RLVNALSEDT GHSYPSHRS FTKMSSMNER	DSIVVLEDLS VADELFNVFL LPVWSQNHR WPHSQMDPV VTIITFFLC WCPYHTLNLL ELHHTAMPGS VFLSLPLAT	PLEARVTRIF PIHITYAAMD VRLAYMACMV GYSRHMVTV WCPYHTLNLL ELHHTAMPGS VFLSLPLAT	LUVVYSIVCF YHWVFGTAMC IWLAFFLSS TRFLCGFLVP VLIITACYLT ELHHTAMPGS VFLSLPLAT	LGILGNGLVI KISNELLIHN PSLVFRDTAN VLIITACYLT VFLSLPLAT	Homo sapiens		
236	3846	Sphingolipid Receptor Edg1	NM_001400	gtcgggggca cttcgcccgt cacaaaaagc cgccctctag accatggggc gtcaactatg gacaaggaga atcctggaga atgtactatt gctaacctgc cggaaggaga atgagcgct ctcttccctg atgggctgga aagcactata ctgtactgca aacatttcca atcgtccctga gtgggtctga gctgtgtctca cgggccttca ttcaagcgac caccocaga tcttcttcc ccacccagat caagccagag tagagttagt tatataattt agctcctaaa tctttgtctg gtgtgcactt ttcatacccc ctggggttgt tgggaagatg	2	gcgaagaat cttgagcgag ctggtacact cgctgctctg ccaccagcgt atatactcgt acagcattaa acatctttgt ttatggcaa tctgtctctg gtatgttgt atatacaaat taatacagcg actgcacag tcctcttctg gactactctg gtggtgtgtg ctgtgtgtgtg caacccatc gtcctgtctg cggcatggaa ggacaacca gctgtccacc aatctctgtg ggagaatgag aatgcaactg agctgcaactg gggttctatt gagcttttgg tgatgttttt agggatgccc tcttttactt atcatctata ggaagtgtgt aagaatgtgt	3	cgtacagat gctcggtttt catcgaacca gagtagcgcc ccgctgggtc ccggcattac actgacctcg ctgtgtgttc ctgtgtgacc tctggccctc ggccaccacc ggccctgtca gctgaaatg ctggtgtgtc tctgtgtgtc tgccgtgtcc caccacggtc ttcactctgc actcgagcc cagctctgag cgctgtgtg gcacctgtct ctgtgtgtg caacccatc gtcctgtctg cggcatggaa ggacaacca gctgtccacc aatctctgtg ggagaatgag aatgcaactg agctgcaactg gggttctatt gagcttttgg tgatgttttt agggatgccc tcttttactt atcatctata ggaagtgtgt aagaatgtgt	4	cccggtctct ctccagccaa cagtgaaagg cctggggaca aagctcggt gaaagctgaa ttctcatctg ccaagaaatt cgaagaggt tggcagagct ctcccccatg agtttcaaac ccttcaactt tgtacatccc tatactttaa gcaaataggc aacaatgtcc ttcgtgagg ccaaagtctc	5	ccgaaacgcaa ggaaaagcta tctctcgcc caggggttggc ctctgactac gagctcggt tatcagcgcg ctgctttatc ccaagaaatt cgaagaggt tggcagagct ctcccccatg agtttcaaac ccttcaactt tgtacatccc tatactttaa gcaaataggc aacaatgtcc ttcgtgagg ccaaagtctc	Homo sapiens

237	3846	Sphingolipid NP_001391.2 Receptor Edg1	catgtaagcg ggtccggtt ttggaattt ggtgaagtc actttgattt ctttaaaaa catcttttca atgaatgtg ttaccattc ataccattg aagccgaat ctgcataagg aagccactt tatctaagt atattagcca ggtcccttg tgcctagga gaaacagaca agcaaaacaa agtgaatacc gaatggatta acttttgcaa accaaggag atttcttagc aaatgagtct aacaaatag acatccgtct tcccacttt tttgatgtt tattcagaa tcttggtga ttcattcaa gcaacaacat gttgtattt ttgtgttaa agtactttt cttgattttt gaatgtattt gtttcagaa gaagtattt tatggattt tctaaccgt gttaactttt ctagaatcca cctctgtg cccttaagca ttactttaac tggtagggaa cgccagaact tttaagtcca gctattcatt agatagtaag tgaagatag tataaatatt acaaagaata aaaaatatatt actgtctctt tagtatggtt ttcagtga ttaaacggag agatgtcttg tttttttaa aagaatagta tttaataggt tctgacttt tgtgatacat tttgcacata gctttatcaa cttttaaca ttaataaact gatttttta aag	Homo sapiens
238	3847	Sphingolipid NM_005226 Receptor Edg3	MGPTSPLVK AHRSSVSDYV NYDIIVRHYN YTGKLNISAD KENSIKLTSV VFILICCFII P LENIFVLLTI WKTKKFRPM YYFIGNLALS DLLAGVAYTA NLLSGATTY KLTPAQWFLR EGSMFVALSA VFSLLAIAI ERYITMLKMK LHNGSNFRL FLLISACWVI SLILGGLPIM GWNCSALSS CSTVLPYHK HYILFCTVF TLLLSIVIL YCRIYSLVRT RSRRLTFRKN ISKASRSSEK SLALLKVII VLSVFIACWA PLFILLLLDV GCKVKTCDIL FRAEYFLVLA VLNSGTNP II YLTNKENRR AFIRMSCK CPSGDSAGKF KRPIIAGMEF SRKSDNSSH PQKDEGNPE TIMSSGNVNS SS atggcaactg cctcccgcc gcgtctcag ccggtgcggg ggaacagag cctgcggag A cattaccagt acgtgggaa gttggcggc agctgaag agccctcga ggcagcacg ctcaccacg tgcctctt ggtcatctg agcttcacg tcttgagaa cctgatggtt ttgattgcca tctggaata caataaatt cacaaccga tgtactttt catgggcaac ctggtctct gcgacctgt tcccacggtc gcttaacaag tcaacattt gatgtctggc aagaagacgt tcagcctgtc cctccactg gccatcgcca tcgagcggca cttgacaatg gcccttggg ggccttacga cgccacaag aggcaccg tcttctctt gatcgggatg atcaaatga ttgcttcac gctggcgcc ctgcccattc tgggtggaa ctgctgcac tgctggctca actgctctac catcctgcc ctctactcca agaagtacat tgccttctgc aatctccctg tcacggccat cctggtgacc atcgtgatcc tctacgcac catctacttc atcagcatct ccagggccat taagtggtg ccaccaca actcggagcg gtccatggca ctggtgaagt ccagagccg taagtggtg ccaccaca actcggagcg gtccatggca ctgctgcgga ccgtggtgat tgtgtgagc gtgttcacg cctgctggtc cccactcttc atcctcttc tcattgatgt ggcctgcag gtgcaggcgt gcccacatc cttcaaggct cagtggttca tctgtgtggc tgtgtcaac tccgccatga acccggtcat ctacacgctg gccagcaagg agatgcggc ggccttctc cgtctggtt gcaactgctt ggtcaggga cgggggggcc cgccctcacc catccagcct cgctcgacc caagcagaag taaatcaagc agcagcaaca atagcagcca ctctccgaag gtcaaggaa acctgcccc cacagacccc tcactctgca tcatggaca gaacgcagca cttcagaatg ggtctctctg caactga	Homo sapiens
239	3847	Sphingolipid NP_005217.1 Receptor Edg3	MATALPPRIQ PVRGNETLRE HYQYVGKLAG RLKEASEGST LTTVFLVIC SFIVLENLMV P LIAIWKNKF HNRMYFFIGN LALCDLLAGI AYKVNILMSG KKTFSLSPTV WFLREGSMFV ALGASTCSLL AIAIERHLM IMRPYDANK RHRVFLIGM CWLIAFTLGA LPILGWNCLH	Homo sapiens

240	3848	C-C Chemokine Receptor 9	NM_006641	<p>NLPDCSTILP LYSKKYIAFC ISIFTAILVT IVILYARIYF LKSSSRKVA NHNNSERSMA LLRTVVIVS VFIACWSPLF ILFLIDVACR VQACPILFKA QWFIVLAVLN SAMNPVIYTL ASKEMRRAFF RLVCNCLVRG RGARASPIQP ALDPSRSKSS SSNNSSHSPK VKEDLPHDTP SSCJMDKNAA LQNGIFCN</p>	<p>gcccctcatc ccaggcagag agcaaccacag ctcttccc agacactgag agctggtggt A gctgctgtgc ccaggagag ttgcatcgcc ctccacaagc cctattctta acatggctga tgactatggc tctgaatcca catctccat ggaagactac gtaacttca acttcactga cttctactgt gaaaaaaca atgtcaggca gtttgcagc ctttctcc cacccttgta ctggctcgtg ttcacgtggt gtgcttggg caacagcttt gttatccttg tctactggta ctgcacaaga gtgaagacca tgaccgacat gttccttttg aatttgcaa ttgctgacct cctcttctt gtcactcttc ccttctggg ctttctgct gctgaccagt ggaagtcca gacctcatg tgcaaggtg tcaacagcat gtacaagatg aactttaca gctgtgtgtt gctgatcatg tgcatcagcg tggacaggta cattgccatt gccaggcca tgagagcaca tacttggagg gaaaaaggc ttttttacag caaatgttt tgctttacca tctgggtatt ggcagctgct ctctgcatcc cagaaatctt atacagccaa atcaaggagg aatccggcat tgctatctgc acctgggtt acctagcga tgagagcacc aaactgaagt cagctgtctt gacctgaag gtcatctggt gttcttctt tcccttggt gtcatggctt gctgtatatc catcatcatt cacacctga tacaagccaa gaagtcttc aagcacaaag ccctaaaagt gacctcact gtctgaccg tctttgttt tcttctggt cctacaact gcattttgtt ggtcagacc attgagcct atgcatgtt catctccaa tgtgcgttt ccaccaacat tgacatctgc ttccagtc caagaccat cgccttctc cacagtgtgc tgaacctgt tctctatgt tttgtgggtg agagattccg ccgggatctc gtgaaaacc tgaagaactt gggttgcac agccaggccc agtgggtttc attacaagg agagaggga gcttgaagt gtcgtctatg ttgctggaga caactcagg agcactctc ctctgagggt tcttctctga ggtgcattgt tcttttggaa gaaatgagaa atacagaaac agtttcccca ctgatgggac cagagagagt gaaagagaaa agaaaactca gaaagggtg aatctgaact atatgattac ttgtagtcag aatttgcaa agcaaatatt tcaaaatcaa ctgactagt caggaggctg ttgattggct ctgtactgt atgcccga tttctcaagg agactaagg accggcactg tgagaccacc tggctttgccc actgcgcgga gcatcaatgc cgtgcctct ggaggagccc ttggattttc tccatgcat gtgaactct gtggttctcag ttctcatgct gcctcttcca aaaggggaca cagaagcact ggctgctgt acagaccga aaagcagaaa gtttcgtgaa aatgtccatc tttgggaaat tttctacct gctcttgagc ctgataacc atgccaggtc ttatagattc ctgatctaga acctttccag gcaatctcag acctaatctt cttctgttct cctgttctg ttctgggcca gtgaaggtcc ttgttctgat ttgaaacga tctgcaggtc ttgccagtga acccttgac aactgaccac acccaagg catccaaagt ctgttggctt ccaatccatt tctgtgtct gctggaggtt ttaacctaga caaggattcc gcttattctt tggtatgggt acagtgtct tccatggcct gagcaggag attataacag ctgggttctgc aggagccagc cttggccctg ttgtaggctt gtctgttga gtggcacttg ctttgggtcc accgtctgtc tgctccctag aaatgggtt ggttcttttg gcctcttct tctgaggcc cactttattc tgaggatac agtgagcaga tatgggcagc agccaggtag ggcaagggg tgaagcgag gccttgtgtg aggtatatt acttccatgc ttctctttt ctactctat</p>	Homo sapiens
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241	3848	C-C Chemokine Receptor 9	NP_006632.2	SMEDYVNFN FTDFYCEKNN VRQFASHFLP PLYWLVIIVG ALGNSLVILV P	Homo sapiens
242	3849	G Protein- Coupled Receptor GPR1	NM_005279	atggaagatt tggaggaaac attatttgaa gaatttgaaa actattccta tgacctagac A tattactctc tggagtctga tttggaggag aaagtccagc tgggagttgt tcactgggtc tccttggtgt tatattgttt ggcttttgtt ctgggaattc caggaaatgc catcgtcatt tgggtcacgg ggtccaagtg gaagaagaca gtcaccactc tgtggttctt caatctagcc attgcggatt tcatttttct tctctttctg cccctgtaca tctctatgt ggcctatgaat ttccactggc cctttggcat ctggctgtgc aaagccaatt ccttcactgc ccagtgaac atgtttgcca gtgttttttt cctgacagtg atcagccctg accatatat ccacttgatc catcctgtct tatctcatcg gcatcgaaac ctcaagaact cctgatttgt cattatatc atctggcttt tggctctctt aattggcgggt cctgcctgtt acttcggga cactgtggag ttcaataatc atactctttg ctataacaat ttccagaagc atgacctga cctcactttg atcaggcacc atgttctgac ttgggtgaaa ttatatcattg gctatctctt ccttttgcta acaaatgagta ttgtctactt gtgtctcatc ttcaagtgga agaagcgaac agtctctgac tccagtaggc atttctggac aattctggtt gtggtgtgtg cctttgtggt ttgctggact ccttatcacc tgtttagcat ttgggagctc accattcacc acaatagcta tccccaccat gtgatgcagg ctggaatccc cctctccact ggtttggcat tcctcaatag ttgcttgaac cccatccttt atgtccta at tagtaagaag ttccaagctc gcttcgggtc ctcagtgtct gagatactca agtacacact gtgggaagtc agctgttctg gcacagtga tgaaacagctc aggaactcag aaaccaagaa tctgtgtctc ctggaacag ctcaataa	Homo sapiens
243	3849	G Protein- Coupled Receptor GPR1	NP_005270.1	MEDLEETLFE EFENYSYDL D YSLESLEE KVQLGVVHWV SLVLYCLAFV LGIPGNAIVI P WFTGLKWKKT VTTILWFNL A IADFIHLFL PLYISYVAMN FHWPFGIWLC KANSFTAQLN MFASVFFLT V ISLDHYIHLI HPVLSHRHT LKNSLIVIF IWLLASLIGG PALYFRDTVE FNNHTLCYNN FQKHDPDLTL IRHHVLTWVK FIIGYLFPL TMSICYLCI FKVKRTVLI SSRHFWTILV VVAFFVVCWT PYHLFSIWEL TIHNNSYSHH VMQAGIPLST GLAFLNSCLN PILYVLISKK FQARFRSSVA EILKYTLWEV SCSGTVSEQL RNSETKNLCL LETAQ	Homo sapiens
244	3850	G Protein- Coupled Receptor 10 (GPR10)	NM_004248	atggcctcat cgaccactcg gggcccccag gttctgact tattttctgg gctgccgcg A gcggtcacaa ctcccgccaa ccagagcgca gaggcctcgg cgggcaacgg gtcggtggct ggcgcgagc ctccagcgt cagcccttc cagagcctgc agctggtgca tcagctgaag gggctgatcg tgctgctcta cagcgtcgtg gtggtcgtgg gctggtggg caactgcctg ctggtgctgg tgatcgcgcg ggtgcgcgg ctgcacacg tgacgaactt cctcatcgcc aacctggcct tgtccgacgt gctcatgtgc accgcctgcg tgcgcctcac gctggcctat	Homo sapiens

245	3850	G Protein- Coupled Receptor 10 (GPR10)	NP_004239.1	<p>gccttcgagc cagcgggctg ggtgttcggc ggcggtctgt gccactgggt cttcttcttg cagccgggtca cegttctatgt gtcggtgttc agctcaacca ccactgcagt ggacgcgtac gtcgtgctgg tgcacccgct gagcgggcgc atctcgctgc gcctcagcgc ctacgtctgtg ctggccatct gggcgctgtc cgcgtgtctg gcgtgccccg ccgcgtgtga cacctatcac gtggagctca agcgcacga cgtgcgcctc tgcgagagt tctgggctc ccaggagcgc cagcccgagc tctacgctg ggggctgtg ctggtcacct acctgtctcc tctgtggtc atctctctgt cttacgtccg ggtgtcagt aagctcgcga accgctggt gccgggctgc gtgacccaga gccaggccga ctgggaccgc gctcgcgcc gccgacctt ctgcttctg gtggtggtcg tgggtgtgtt cgcgtctgc tggctgcgc tgcactctt caacctgtg cgggacctg accccacgc catcgacct tacgctttg gctggtgca gctgctctg cactggctg ccatgagttc ggcctgtac aacctctca tctacgctg gctgcacgac agcttccgcg aggagctgcg caaactgtt gtcgcttggc cccgcaagat agcccccat ggccagaata tgaccgtcag cgtggtcatc tga</p>	Homo sapiens
246	3851	G Protein- Coupled Receptor GPR12	NM_005288	<p>atgaatgaag acctgaaggt caatttaagc gggtgcctc gggattattt agatgccgt A gctgcggaga acatctgcgc tgctgtctcc tccggggttc ctgctgtaga gccagagcct gagctgttag tcaacccctg ggacattgtc ttgtgtacct cgggaacct catctcctgt gaaatgcca ttgtgtctt tatcatctc cacaacccca gcctgcgag acctatgtc ctgctaatag gcagcctggc tcttgacagc ctgctggcgc gattggact catcaccaat tttgtttttg cctacctgct tcagtcagaa gccaccaagc tggtaacgat cggcctcatt gtcgcctctt tctctgcctc tgcctgcagc ttgctggcta tcaactgtga ccgctacctc tcaactgact acgctctgac gtaccattcg gagaggagcg tcaactttac ctatgtcatg ctcgtcatgc tctgggggac ctccatctgc ctggggctgc tggcgtcat gggctggaac tgctccagag acgagtcac ctgcagcgtg tgcagaccgc tcaccaagaa caacgcggcc atctctcgg tgtctctct cttcatgtt gcgtcatgc ttcagctcta catccagatc tgtaagattg tgatgagga cggccatcag atagccctgc agcacactt cctggccacg tcgcactatg tgaccaccgc gaaaggggtc tccacctgg ctatcatctt ggggacgttt gctgctgtgct ggatgcttt caccctctat tctctgatat cggattacac ctaccctcc atctatactt agccacctt cctgcgcgc acctacata ccatcatcaa cctgtcata tatgctttca gaaaccaaga gatccagaaa gcgtctgtc tcatttctg cggctgcac ccgtccagtc tcgcccagag agcgcgctg cccagtgtg tgtag</p>	Homo sapiens
247	3851	G Protein- Coupled Receptor GPR12	NP_005279.1	<p>ENAIIVLIIF HNPSLRAPMF LLIGSLALAD LLAGIGLITN FVFAYLIQSE ATKLVITIGLI VASFASVCS LLAITVDRL SLXYALTYHS ERTVTFTYVM LVMLWGTSLC LGLLPVMGWN CLRDESTCSV VRPLTKNNA ILSVSFLFMF AIMLQLYIQI CKIVMRHAHQ IALQHHFLAT</p>	Homo sapiens

248	3852	CX3C Chemokine Fractalkine Receptor 1	NM_001337	SHYVTRKGV STLAAILGTF AACWMPFTLY SLIADTYTYS IYTYATLLPA TYNSINPVI YAFRNOEIQK ALCLICCGCI PSSLAQRARS PSDV ggggcagatc cagattccct ttgcagtcga cggcaggcct tcaccatgga tcagttccct A gaatcagatga cagaaaactt tgagtacgat gattggctg aggcctgta tatcggggac atcgtggtct ttgggactgt gttcctgtcc atattctact cgtcatctct tgccattggc ctggtgaggaa atttgttggt agtgtttgccc ctcaccaaca gcaagaagcc caagatgtgc accgacattt accctctgaa cctggccttg tctgactctgc tgtttgtagc caatttgccc ttctggactc actatttgat aaatgaaaaa ggcctocaca atgccatgtg caaatcact accgcttctt tcttcacgtg cttttttgga agcatattct tcataccgt catcagcatt gataggtaacc tggccatcgt cctggcggcc aactccatga acaaccggac cgtgcagcat ggcgtcacca tcagcctagg cgtctgggca gcagcattt tgggtggcagc acccagttc atgttcacaa agcagaaaaga aatgaatgc cttgtgtact acccggagt ccttcaggaa atctggcccc tgcctcgcaa tgtggaaaaca aattttcttg gttcctact cccctgtctc attatgagtt attgctactt cagaatcacc cagacgtgt tttcctgcaa gaaccacaag aaagccaaaag ccattaaact gatccttctg gtggtcactg tgttttctt cttctggaca ccctacaaag ttatgatttt cctggagacg ctttaagctct atgacttctt tcccagttgt gacatgagga aggatctgag gctggccctc agtgtgactg agcgggtgc atttagccat tgttgctga atcctctcat ctatgcattt gctggggaga agttcagaag atacctttac cacctgtatg ggaatgcct ggtgtcctg tgtggggcct cagtcacagt tgatttctcc tcacttgaat cacaaggag caggcatgga agtgtctga gcagcaattt tacttaccac acgagtgatg gagatgcatt gctcctctc tgaagggaat cccaaagcct tgtgtctaca gagaacctgg agttcctgaa cctgatgctg actagtggg aagattttg ttgttattc ttacaggcac aaaaatgatg acccaatgca cacaacaaa ccttagagtg ttgttgagaa ttgtgctcaa aattgaaaga atgaacaaat tgaactcttt gaatgacaaa gtagagacat ttctcttact gcaaatgtca tcagaaactt ttggtttgca gatgacaaaa attcaactca gactagtta gttaaaatgag ggtggtgaat attgttcata ttgtggcaca agcaaaaaag gtgtctgagc cctcaaaagt aggggaacca gggcctgagc caagcta MDQFPESVTE NFEYDDLAEA CYIGDIVVFG TVFLSIFYSV IFAIGLVGNL LWFALTSNK P KPKSVTDIYL LNLALSLLF VATLPFWTHY LINEKGLHNA MCKFTTAFFF IGFFGSIFFI TVISIDRYLA IVLAANSNN RTVQHGVTIS LGVWAAAILV AAPQFMFTKQ KENECLGDYP EVLQEIWPVL RNVEINFLGF LLPLLLMSYC YFRIIQTIFS CNHKKAKAI KLILLVVIVF FLFWTPYNVM IFLETILKLYD FFPSCDMRKD LRLALSVTET VAFSHCCLNP LIYAFAGEKF RRYLHLYGK CLAVLCGRSV HVDFSSSESQ RSRHGSVLSS NFTYHTSDGD ALLLL atggaccagc agaaaacttc agttatttg gattattact atgtacagag cccaaactct A gacatcaggg agaccactc ccatgttctc tacacctctg tcttcttcc agtcttttac acagctgtgt tccctgactg agtgcctggg aacctgttcc tcattgggagc gttgcatttc aaacccggca gccgaagact gatcgacatc ttatcatca atctggctgc ctctgacttc atttttcttg tcacattgcc tctctgggtg gataaagag catctctagg actgtggag acgggctcct tcctgtgcaa agggagctcc tacatgatct cgtcaaatat gcactgcagt gtcctctctgc tcacttgcac gatgtgtgac cgctacctgg ccattgtgtg gccagtcgta tccaggaaaat tcagaaggac agactgtgca tatgtagtct gtgccagcat ctggtttctc	Homo sapiens
249	3852	CX3C Chemokine Fractalkine Receptor 1	NP_001328.1	gtgtctgagc cctcaaaagt aggggaacca gggcctgagc caagcta MDQFPESVTE NFEYDDLAEA CYIGDIVVFG TVFLSIFYSV IFAIGLVGNL LWFALTSNK P KPKSVTDIYL LNLALSLLF VATLPFWTHY LINEKGLHNA MCKFTTAFFF IGFFGSIFFI TVISIDRYLA IVLAANSNN RTVQHGVTIS LGVWAAAILV AAPQFMFTKQ KENECLGDYP EVLQEIWPVL RNVEINFLGF LLPLLLMSYC YFRIIQTIFS CNHKKAKAI KLILLVVIVF FLFWTPYNVM IFLETILKLYD FFPSCDMRKD LRLALSVTET VAFSHCCLNP LIYAFAGEKF RRYLHLYGK CLAVLCGRSV HVDFSSSESQ RSRHGSVLSS NFTYHTSDGD ALLLL atggaccagc agaaaacttc agttatttg gattattact atgtacagag cccaaactct A gacatcaggg agaccactc ccatgttctc tacacctctg tcttcttcc agtcttttac acagctgtgt tccctgactg agtgcctggg aacctgttcc tcattgggagc gttgcatttc aaacccggca gccgaagact gatcgacatc ttatcatca atctggctgc ctctgacttc atttttcttg tcacattgcc tctctgggtg gataaagag catctctagg actgtggag acgggctcct tcctgtgcaa agggagctcc tacatgatct cgtcaaatat gcactgcagt gtcctctctgc tcacttgcac gatgtgtgac cgctacctgg ccattgtgtg gccagtcgta tccaggaaaat tcagaaggac agactgtgca tatgtagtct gtgccagcat ctggtttctc	Homo sapiens
250	3853	G Protein- Coupled Receptor GPR15	NM_005290	gtgtctgagc cctcaaaagt aggggaacca gggcctgagc caagcta MDQFPESVTE NFEYDDLAEA CYIGDIVVFG TVFLSIFYSV IFAIGLVGNL LWFALTSNK P KPKSVTDIYL LNLALSLLF VATLPFWTHY LINEKGLHNA MCKFTTAFFF IGFFGSIFFI TVISIDRYLA IVLAANSNN RTVQHGVTIS LGVWAAAILV AAPQFMFTKQ KENECLGDYP EVLQEIWPVL RNVEINFLGF LLPLLLMSYC YFRIIQTIFS CNHKKAKAI KLILLVVIVF FLFWTPYNVM IFLETILKLYD FFPSCDMRKD LRLALSVTET VAFSHCCLNP LIYAFAGEKF RRYLHLYGK CLAVLCGRSV HVDFSSSESQ RSRHGSVLSS NFTYHTSDGD ALLLL atggaccagc agaaaacttc agttatttg gattattact atgtacagag cccaaactct A gacatcaggg agaccactc ccatgttctc tacacctctg tcttcttcc agtcttttac acagctgtgt tccctgactg agtgcctggg aacctgttcc tcattgggagc gttgcatttc aaacccggca gccgaagact gatcgacatc ttatcatca atctggctgc ctctgacttc atttttcttg tcacattgcc tctctgggtg gataaagag catctctagg actgtggag acgggctcct tcctgtgcaa agggagctcc tacatgatct cgtcaaatat gcactgcagt gtcctctctgc tcacttgcac gatgtgtgac cgctacctgg ccattgtgtg gccagtcgta tccaggaaaat tcagaaggac agactgtgca tatgtagtct gtgccagcat ctggtttctc	Homo sapiens

251	3853	G Protein- Coupled Receptor GPR15	NP_005281.1	MDPEETSVYL KPGSRRLIDI VLLITCMSVD PYCAEKKATP KIIFIVVAAF IYYIFDSYIR	DYYATSPNS FIINLAASDF RYLAIVWPV IKLIWSLVAL LVSWLPEFTF RAIVHCLCPC	DIRETHSHVP IFLVTLPLMV SRKFRRTDCA IVTCYCIWFI QEHYLPFSAIL LKNYDFGSST	YTSVFELPVFY DKEASIGLMR YVVCASIWFI IVTCYCIWFI QEHYLPFSAIL ETSDSHLTAK	TAVELTGVLG TGSFLCKGSS SCLGLPTLL KLCALHYQQSG QLGMEVSGPL LSTFIHAEDF	NLVLMGALHF YMISVNMHCS SRELTLIDDK KHKKLKKSI AFANSCWNPF ARRKRVSLSL	Homo sapiens
252	3854	G Protein- Coupled Receptor GPR18	NM_005292	gaaagagaca ctggaaaacta acactgtttc agtggaagtg agtatcatgc cccttttaac tatcttcata caagaagaga tataatgact gtacttctgc tcttgccctt acttaaaaaa cagcaccacc ctgcctcaag actgacattt tcataatctc aaggatcatc tttcgccttc caccttccct acaatttcag cagaaaaagt atgaataata cgtaaatgga ttatcttcat	aagcagcaat ctttttaaag cagaaaagac ctgaaaaatg ctaccaacaa agctcacatc attggattat accacggtaa ttaccctttc cagattcttg attagtctgc acgtgcaag cctctgctac atttctgaca tttctcttga cttcacggca atcacgctgc ctgatgctgg atgaacctca gctcgagtca tccgatctg aggttcttct tattctgtat	taaagtcagc caacaaaaga tattttaaca ctcatctctc gctgtaaaat cagatgaata ttgttaacat ccatctatat gaatgtttta gagctctcac acagatacat ccgtgctggc tgctctataa tcacttatct ttccttttgt ggactgctaa tgggtcaggt gaacggggga gcacgtgtct ttagtgtcat gtagtctacg gtcactaacg gtcactaacg catcaaaatc aatactatca agtccttttt	ccagcaccac gtctaaacaa gaagacaatc acacagactt gatcacctcg caaaaattgca cactgcatta gatgaatgtg ttatgcaaaa cgaagcattg ggccattgta gctgtgtgga agaccagat aaaagctgtg catcatgatt gctgaaaccc gctgtctgc aatcctgttc gaacagttac ggatgtgatt ctctactaca gctataccgt gtcactaacg gtcactaacg catcaaaatc aataataaca cacttcaact ctcttgaaaa	aagcgtttac tctctactaa tccacatctg aatcctctgg gagcctttac tcgtttcaaa aattaccttc gaagcatgcg gtgaaatgtt cacttcaact actactctgg aataaatcca actataatcca aataaatcca aataaatcca aataaatcca	Homo sapiens	

257	3856	G Protein- Coupled Receptor GPR2/CCR10	NP_057686.1	<p>ccacctgtctc cagctggccc tgccgacct ctgtgtggcc ctgactctgc ccttcgggc</p> <p>agcagggggt ctteagggct ggagctbgyg aagtgcacc tgccgcacca tctctggcct</p> <p>ctactcggcc tcttccacg cggcttctct ctctcggcc tgtatcagcg ccgaccgcta</p> <p>cgtggccatc gcgcagcgc tcccagcgg gcccgggccc tccactcccg gcccggcaca</p> <p>cttggtctcc gtcactgtgt ggctgtgtc actgtgctg gcgtgctcg cgtgtctctt</p> <p>cagccaggtat ggccagcggg aaggccaacg acgtgtcgc ctcatctcc ccgagggcct</p> <p>cagccagacg gtgaaggggg cagcgccgt ggccaggtg gccctgggt tcgctgtgc</p> <p>gctgggcgtc atggtagcct gctacgcgt tctgggcgc acgtgtcgg ccgccaggg</p> <p>gcccgagcgc cggcgtgccc tgccgtcgt gggtgctctg gtggcgccct tcgtgtgtct</p> <p>gcagctgccc tacagcctcg cctgtgtgt ggatactgct gatctactgg ctgcgcgcga</p> <p>gcggagctgc cctgccagca aacgcaagga tgcgcactg ctggtgacca gcggttggc</p> <p>cctgcgccgc tgtggcctca atccgttct ctacgcttc ctgggcctgc gttccgccca</p> <p>ggacctgccc agcctgctac gggttgggg ctgccttca ggccctcaac ccgcgcggg</p> <p>ctgccccgc cggccccgc ttcttctctg ctacgctccc acggagacc acagtctctc</p> <p>ctgggacaac tagggctgag aatctagag agggggcagg ctgagggctg tgggaaagg</p> <p>gagttaggtg gggaacactg agaaagagg agggacctaa agggactacc tctgtgctt</p> <p>gccacattaa attgataaca tggaaatgaa aaaaaaaa aaaa</p>	Homo sapiens
258	3857	G Protein- Coupled Receptor GPR20	NM_005293	<p>atgcccctctg tgtctccagc ggggccctcg gccggggcag tcccaatgc caccgagtg A</p> <p>acaaacagtgc ggaccaatgc cagcgggctg gaggtgccc tgttccacct gtttgcccg</p> <p>ctggacgagg agctgcattg cacttccca ggctgtgag tggcgtgat ggcggtgcac</p> <p>ggagccatct tcttgccagg gctggtgctc aacgggctg cgtgtacgt ctctgtctgc</p> <p>cgcacccggg ccaagacacc ctacgtcatc tacaccatca acctggtgt gaccgatcta</p> <p>ctggtagggc tgtccctgccc cagcgcttc gctgtgtact acggcgccag gggtgccc</p> <p>cgtgtgctt tcccgcagt cctcggttac tctctcaaca tgcactgctc catctcttc</p> <p>ctcacctgca tctgcgtgga ccgtacctg gccatcgtg gcccggaag tcccgcgcc</p> <p>tgcggccagc ctgctgtgct cagggccgtg tgcgcttcg tgtggtggc cgcgggtgc</p> <p>gtcacctgt cgggtgctggg cgtgacagc agcggccct agcgcgtgt ctctgctgt</p> <p>actgtcctg agttcctgct gcccctgct gtcactcagc gttttaccg ccgcatcatg</p> <p>tgtgcactg cgcggccggg tctgtctcac caggtgccc agcgcgcgt gcgggcccag</p> <p>cagctcctgc tcagggtgct catcatctt ctctgtctgt tcacgcccct ccacgcccgc</p> <p>caagtggccg tggcgtgtg gccgacatg ccacaccaca cagacctgt ggtctaccac</p> <p>gtggccgtga cctcagcag cctcaacagc tgcattggacc ccatcgtcta ctgcttcgtc</p> <p>accagtggct tccaggccac cgtccgagc ctcttcggcc ctcacggaga gcgtgagccc</p> <p>agcagcgtg acgtggtcag catgcacag agctccagg gctcaggccg tcatcacatc</p>	Homo sapiens

259	3857	G Protein- Coupled Receptor GPR20	NP_005284.1	ctcagtgccg gccctcagcg cctcaccag gccctggcta atgggccga ggcttag GAIFLAGLVL NGLALVFECC RTRAKTPSVI YTNLVVTDL LVGLSLPTRE AVYVGARGCL RCAPPHVLGY FLNMHCSILF LTCICVDRL AIVRPEAPAA CRQPACARAV CAFVWLAAAGA VTLSVLGVGT SRPCCRFFAL TVLEFLPLL VHSVFTGRIM CALSRPGLLH QGRQRRVRAM QLLLTVLIIF LVCFTPEHAR QVAVALWPDH PHTLSLVYH VAVTLSSLNS CMDPIVYCFV TSGFQATVRG LFGQHGEREP SSGDVVSMHR SSKGSGRHHI LSAGPHALTQ ALANGPEA	Homo sapiens
260	3858	G Protein- Coupled Receptor GPR21	NM_005294	atgaactcca ccttgatgg taatcagagc agccaccctt ttgacctt ctcatggcg A tattggaaa ctgtcaattt ttgacctttg gaagtattga ttattgtctt tctaactgta ttgattattt ctggaacat catttgtatt ttgtatttc actgtgcacc ttgttggaac catcacacta caagtattt tatccagact atggcatatg ctgacctttt tgttggggtg agctgggtgg tcccttcttt atcactctc catcacccc ttccagtaga ggagtccttg acttgcaga tatttggttt ttagtatca gttctgaaga cgtctccat ggttctcttg gcctgtatca gattigatag atacattgcc attactaac ctttaacctg taatactctg gttacacctt ggagactacg cctgtgtatt ttccgtgatt ggctatactc gacctgggtc ttcctgctt ctttttcca ctggggcaaa cctggatc atggagatgt gtttcagtgg tgtgggagt cctggcacac cgactcctac ttacacctgt tcatcgtgat gatgttat gccccagcag ccttattgt ctgcttccac tatttcaaca tcttccgcat ctgccaaacg cacacaagg atatcagcga aaggcaagcc cgcttcagca gccagatgg ggagactggg gaagtgcagg cctgtcctga taagcgtcat gccatggctc tgtttcgaat cactagtgtg ttttacatcc tctgttggc atatatcatc tacccttgg tggaaagctc cactggccac agcaaccgct tcgcctcctt cttgaccacc tggcttgcta ttagtaaacg ttctgcaac tgtgtaatt atagtcttc caacagtga ttccaaagag gactaaagc cctctcaggg gctatgtgta cttcttggc aagtcagact acagccaacg accttacac agttagaagc aaaggccctc ttaatggatg tcatatctga MNSTLDGNQS SHPFCLLAFG YLETNFCLL HHTTSYFIQT MAYADLFVGV SCVPSLSLL ACISIDRYIA ITKPLTYNTL VTPWRLRLCI CAESWHTDSY FTLFIVMMLY APAALIVCFY EVQACPDKRY AMVLFRTSV FYILWLPYII CVIYLSNSV FQGLKRLSG AMCTSCASQT TANDPYTVRS KGPLNGCHI	Homo sapiens
261	3858	G Protein- Coupled Receptor GPR21	NP_005285.1	atgtgttttt ctccattct ggaatcaac atgcagtctg aatctaaccat tacagtgcca A gatgacattg atgacataca caccaatag taccaaaccac tatcatatcc gtttaagcttt caagtgtctc tcaccgatt tcttatgta gaaattgtgt tgggacttgg cagcaacctc actgtattgg tactttact catgaaatcc aacttaatca actctgtcag taacattatt acaaatgaac ttcatgtact tgatgtaata atttgggtg gatgtattcc tctaactata gttatccctc tgccttctact ggagagtaac actgctctca ttgtctgtt ccatgaggct tgtgtatctt ttgcaagtgt ctcaacagca atcaacgttt ttgctatcac ttggacaga tatgacatct ctgtaaaacc tgcaaaccca attctgacaa tgggacagac tgtaattgta atgatatcca ttgggatttt tcttttttc tcttctctga tctctttat tgaggtaaat	Homo sapiens
262	3859	G Protein- Coupled Receptor GPR22	NM_005295		Homo sapiens

263	G Protein-Coupled Receptor GPR22	NP_005286.1	3859	ttttcagtc ttcaagtggt aaatacctgg gaaaacaaga cacttttatg tgtcagtaca aatgaatact acactgaact gggaatgtat tatcacctgt tagtacagat cccaatatc ttttcactg ttgtagtaat gttaatcaca tacaccaaaa tacttcaggc tcttaatat cgaataggca caagatttc aacaggcgag aagaagaaag caagaaagaa aaagacaatt tcttaacca cacacatga ggctacagac atgtacaaa cagtggtgg gagaaatga gtcttggtg taagaacttc agtttctgta ataattggcc tccggcgagc tgtgaaacga cacgtgaac gacgagaaag aaaaagaga gtcttcagga tgtctttatt gattatttct acatttcttc tctgctggac accaatttct gttttaata caccatttt atgtttaggc ccaagtacc ttttagtaaa attaagattg tgttttttag tcatggctta tggaacaact atatttcacc ctctattata tgcattcact agacaaaaat ttcaaaaggt cttgaaaagt aaaatgaaaa agcaggttgt ttctatagta gaagctgac ccctgcctaa taatgctgta atacacaaact cttggataga tcccaaaaga acaaaaaaa ttacctttga agatagtga ataagaaaa aacgtttagt gctcaggtt gtcacagact ag	Homo sapiens
264	G Protein-Coupled Receptor SLC/MCH1	NM_005297	3860	atgttgtgct cttccaagac agatggctca gggcactctg gtaggattca ccaggaaact A catggagaag gaaaaagga caagattagc aacagtgaa ggaggagaa tgggtggaga ggattccaga tgaacgtggt gtcgtggag gctgagcatg ccagcaggat gtcagttctc agagcaaaag ccatgtcaaa cagccaaagc ttgctcttc ttgtcccccagg atcacctcct cgacgggga gcatctccta catcaacatc atcatgcctt cgggtgttcgg caccatctgc ctcctgggca tcatcgggaa ctccacggtc atcttcggtg tctgtaagaa gtccaagctg cactggtgca acaagctccc cgacatcttc atcatcaacc tctcggtagt agatctcctc tttctcctgg gcatgcccct catgatccac cagctcatgg gcaatgggtt gtggcacttt ggggagacca tgtgcacct catcacggcc atggatgcca atagtcagtt caccagcacc tacatcctga ccgcatggc catcgaccgc tacctggcca ctgtccacc catctcttc acgaagtcc ggaagccctc tgtggccacc ctggtgatct gcctcctgtg ggcctctcc ttcatcagca tcacctctgt gtggctgtat gccagactca tccctctcc aggaggtgca gtgggtgctg gcatacgctt gcccaccca gacactgacc tctactggtt caccctgtac cagtttttcc tggcctttgc cctgcctttt gtggtcatca cagccgcata cgtgaggatc ctgcagcgca tgacgtcttc agtggccccc gcctcccagc gcagcatccg cctgcggaca aagaggtgga ccgacacagc catcgccatc tgtctggtct tctttgtgtg cttgggaccc tactatgtgc tacagctgac ccagtgttcc atcagccgcc cgacctcac ctttgtctac ttatacaatg cggccatcag cttgggctat gccaacagct gcctcaacc ctttgtgtac atcgtgctct gtgagacgtt ccgcaaaagc ttggtcctgt cgggtgaagc tgcagccag gggcagcttc gcgtgtcag caacgctcag acggtgacg aggagggac agaaagcaa	Homo sapiens

265	3860	G Protein-Coupled Receptor SLC/MCH1	NP_005288.1	ggcacctga	
				MLCPSKTDGSGHSGRIHQET HGEKGRDKIS NSEGRENGGR GFQMMGSGLE AEHASRMSVL P	Homo sapiens
				RAKPMNSQR LLLSPGSPR RTGSISYINI IMPSVGTIC LLGIIGNSTV IFAVVKKSKL	
				HWCNNVPDIF IILNSVDLL LLGMPFMH QLMGNGVWHF GETMCTLTA MDANSQFTST	
				YILTAMADR YLATVHPIS TFKRKPSVAT LVICLLWALS FISITPWLY ARLIPFPGGA	
				VGCGIRLPN DTDLYWFTLY QFFLAFLPF VVITAXVRI LQRMSTSSVAP ASQSRILRT	
				KRVTRTAIAI CLVFFVCWAP YYVLQTLQLS ISRPLTFVY LYNAAISLGY ANSCLNPFVY	
				IVLCETFRKR LVLSVKPAAQ GQLRAVNAQ TADEERTESK GT	
266	3861	G Protein-Coupled Receptor GPR25	NM_005298	atggccccca cagagccctg gagccccagc cgggggtcag cgccctggga ctactcgggg A	Homo sapiens
				ttggacgggc tggaggagct ggagctgtgt cggcgccggg acctgcccta cggctacgctc	
				tacatccccc cgtctacct ggcgcccttc gcggtgggctt tggatggcaa cgcctttgtg	
				gtgtggctgc tggcgggcgc gcgggccccc cggcggtctgg tggatacctt cgtgctgcac	
				ctggcgggcag ctgacctggg cttcgtgctc acgctgcgc tgtggccgc gggcgcgct	
				aggcgccgt ggccgttcgg cgatggctc tgcaagctca gcagttcgc gctggcgggc	
				acgcgctcg cggcgcgct gctgctggc ggcatgagc tggaccgcta cctggccgtg	
				gtgaagctgc tcgagggcag gccactgccc acccggcgt ggcctgggc cgtgctgctc	
				ggcgtctgg cgtggcgtc gctggccggc ctggccctccc tggctaccg ggggttgacg	
				ccccgcctg ggggccagga cagccagtgc ggcgagagc cctccacgc cttccagggc	
				ctcagcttc gctgctgct gctgaccttc gtgctgccc tggctgctac cctctctgc	
				tactgccga tctcgccgc cctgcgacg ccgcgcgacg tgggtcgggc cggaggaac	
				tcgctgcga tcatcttcg catcgagac agttttgtg gctcctggct gccctcagc	
				gccctgcgg ccgtcttcca cctggcgctt cttggggggc tggcgtgccc gtgccccctg	
				ctgctggcg tcgctgggg cctcaccatt gccacctccc tggccttcgt caacagctgc	
				gccaacccgc tcatctacct cctgctggac cgtcatctcc gagcccgggc gctggacggg	
				gctgcgggc gcaccggccg cctggcgcca aggatcagct cagcctcctc gctctccagg	
				gacgacagtt ccgtgttcgc ttgccgggccc caggccgga acactgcctc ggctcctgg	
267	3861	G Protein-Coupled Receptor GPR25	NP_005289.1	tag	Homo sapiens
				MAPTEPWSPS PGSAPWDYSG LDGLEELELC PAGDLPYGV YIPALYLAAF AVGLLGNFAV P	
				VLLLAGRRGP RRLVDTFVLH LAAADLGFVL TLPLWAAAA RRPWFGDGL CKLSTFALAG	
				TRSAGALLA GMSVDRYLAV VKLLEARPLR TPRCAVASC GVWAVALLAG LPSLYVRGLQ	
				PLPGGQDSQC GEEPSHAFQG LSLLLLLLTF VLPVLTVFC YCRISRRLLAR PPHVGRARRN	
				SLRIIFAIES TFVGSWLPFS ALRAVFHLAR LGALPLPCPL LLALRWGLTI ATCLAFVNSC	
				ANPLIYLLD RSFRARALDG ACGRTRGLAR RISSASSLSR DDSSVFRGPA QAANTASASW	
268	3862	G Protein-Coupled Receptor GPR3	NM_005281	atgatgtggg gtgcaggcag cctctggcc cgtgctcag ctggctcagg caacgtgaat A	Homo sapiens
				gtaagcacgc tggggcccagc agagggggccc acaggtccc cgcaccact gccctcgctc	
				aaggccctgg atgtgtgct ctgcattcca ggcacctgg tgcctcga gaatgcgcta	
				gtgggtggcca tcatcgtggg cactcctgccc tcccgctccc ccatttctc gctggtgggc	
				agcctggccg tggcagacct gctggcaggc cttggcgctgg tccctgcaact tgctgctgtc	
				ttctgcatcg gctcagcgga gatgagcctg gtgctgggtt gcgtgctggc aatggccttt	
				accgccagca tcggcagctc actggccatc actgtcgacc gctaccttct tctgtacaat	

269	3862	G Protein- Coupled Receptor GPR3	NP_005272.1	MMWGAGSPLA VVAIIVGTPA TASIGSLAI LTTGCVVYPL ATRKGIATLA NQDVQKVLWA	WLSAGSGNVN FRAPMELVIG TVDRYLSLYN SKNHLVVLAI VVLGAFACW VCCCSSSKI	VSSVGPAEGP SLAVADLLAG ALTYSETTV AFFMVFGLM LPFTVYCLLG PFRSRSPSDV	TGPAAPLPSP LGLVLHFAAV TRTYVMLALV QLYAQICRIV DAHSPPLYTY LTLPLATYNS	KAWDVVLICIS FCIGSAEMSL WGGALGLGLL CRHAQQIALQ MINPIIYAFR	GTLVSCENAL P P P P P P	Homo sapiens
270	3863	G Protein- Coupled Receptor GPR31	NM_005299	atgccattcc ctggggctgg ttccgggtca ctgctgttgg catctgggcc gggatggcct cttaagggtca ctgatggctg agggtccaca ctctcctggc atcagggtctc caggcaatgg gccagagtcc gctcataacct gtatactgct cgaggcaaaag LLLAACLPFL LKVNLSPQA LSCLQFVLPF ARVLMHIFQN RGKQQAEP	caaaactgctc agtgtgggct gggtgtggaa ctgctgtgct ctgtgggctg tcctggccgc acctgctgtc ccctcacctg gtttctactc ttcagtttgt tccagaaaag tcaccttgg tgatgcacat cggatgtcac tctccagccc ggcagggcagc TVATATVAVGL AAFYLSLQAW ALGVSLVWL GLIVFCNAGI LGSCRALCAV DFNPRDSYS	agcccccagc gggtctgctg gccgtacgct gaccttccct ctgggcccct ctgtggcctg tcctcaggcg cccgggcttg cagggcagac cctccccctt acctccggag gggtgtgctg cttcagaaat gggcagcctc caccttcagg agagccccca ggcagggcagc TVATATVAVGL AAFYLSLQAW ALGVSLVWL GLIVFCNAGI LGSCRALCAV DFNPRDSYS	actgtgtgtg ggcaacgcgg gtctacctgc gccgcttctc cgcttccctg gaccgtacc gccctggggg ctcatctctg ggctccttca ggcctcatcg cttgctctgt ctgggagct acctacctgc agctcctatc gaggggtctt gatttcaacc GNAVALWTEL RFLDLRSV LISEAQNST IRALQKRLRE AHTSDVTGSL TYLHSVNPV	ccacagctgt tggcgctgtg tcaacctggc acctgagcct tggaacctag tccgtgtggt tctcgggccc agcccgcccc gcatcatctg tgttctgcaa agcccaagct gctttctgct gcagggccct acagtgtcgt gaggggtctt ccagagactc ccagagactc GNAVALWTEL RFLDLRSV RCHSFYSRAD QALVTLVAVL VYCFSSPTFR	gggtgtcttg gaccttccctg cctggctgac ccaggcttgg ccgcagcgtg ccacctggtg cgtctggctc gaactccacc gcaggaaagca tgcagggcac tcagcgggcc ctgttctctg ttgtgcagtg caacccccgtg ccacacccctc ctattcctga VYLLNLALAD P P P P P P	Homo sapiens
271	3863	G Protein- Coupled Receptor GPR31	NP_005290.1	MPFPNCAPS LLLAACLPFL LKVNLSPQA LSCLQFVLPF ARVLMHIFQN RGKQQAEP	TVATATVAVGL AAFYLSLQAW ALGVSLVWL GLIVFCNAGI LGSCRALCAV DFNPRDSYS	agagccccca ggcagggcagc TVATATVAVGL AAFYLSLQAW ALGVSLVWL GLIVFCNAGI LGSCRALCAV DFNPRDSYS	actgtgtgtg ggcaacgcgg gtctacctgc gccgcttctc cgcttccctg gaccgtacc gccctggggg ctcatctctg ggctccttca ggcctcatcg cttgctctgt ctgggagct acctacctgc agctcctatc gaggggtctt gatttcaacc GNAVALWTEL RFLDLRSV LISEAQNST IRALQKRLRE AHTSDVTGSL TYLHSVNPV	ccacagctgt tggcgctgtg tcaacctggc acctgagcct tggaacctag tccgtgtggt tctcgggccc agcccgcccc gcatcatctg tgttctgcaa agcccaagct gctttctgct gcagggccct acagtgtcgt gaggggtctt ccagagactc ccagagactc GNAVALWTEL RFLDLRSV RCHSFYSRAD QALVTLVAVL VYCFSSPTFR	gggtgtcttg gaccttccctg cctggctgac ccaggcttgg ccgcagcgtg ccacctggtg cgtctggctc gaactccacc gcaggaaagca tgcagggcac tcagcgggcc ctgttctctg ttgtgcagtg caacccccgtg ccacacccctc ctattcctga VYLLNLALAD P P P P P P	Homo sapiens
272	3864	G Protein- Coupled Receptor	NM_005282	ctggtgacct ccacattgcc tcattgtattt	tacttatctc tgaactttcc cttgtgtctt	tggtgtcttc agctgcgctg cccccgccat	ggaaatgcc tgtcctatct tattacttca	gcactcccc caacacttcc atatggctac	A A A	Homo sapiens

GPR4

acatacttc taattgccct gaaaccatc tccttctc ac cattgccag cgatgctttc
gtctctcca taacactcc cgagaccaa tttttgtgc accccatc tccctcgtg
acacatgac tccatacata acctccttga aaaaccttt tattaatctc accatcctcc
agacttccct cctgtcataa ttccatccct cctccaaatt ttccctctca agctctgcc
ttccagccc agccagcct acccaactc atctcttccc ttagaccac atccaccat
gttccctga gctccaag agggggtca gggggccca ttgctcccg ctccctgtgg
ccccacagcc cccgtggcc aggggaagc cccagtgcc caagtggcc accatggca
accacacgtg ggagggtgc cactggact cgcggtgga ccacctctt ccgcatccc
tctacatctt tctcatggc gtggggtgc ccaccaactg cctggctctg tggcggtcct
accgcaaggt gcaacagcg aacgagctgg cgtctact gatgaacctc agcatcgccg
acctgctgta catctgacg ctgcccgtgt ggggtgacta ctctctgac cagacaact
ggatccacgg cccgggtcc tgcaagctct ttgggttcat ctctacacc aatatctaca
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agggcactgt gctgggtgg gctggggaca caacaatgac tgaggcagcc tggccttgcc

273	3864	G Protein- Coupled Receptor GPR4	NP_005273.1	ttcacaggcg tcaccatata caagtaata aaaaatgtg aatgtttgga attgct MGNHTWEGCH VDSRVDHLFP PSLYIFVIGV GLPNCIALMW AAYRQVQQRN ELGVYLMNLS P IADLLYICTL PLWVDYFLHH DNWHGPGSC KLFGEIFYTN IYISIAFLCC ISVDRLAVA HPLRFARLRR VKTAVAVSSV VMATELGANS APLFHDELFR DRYNHTFCFE KFPMEGWVAV MNLRYRVFVG LFWALMLLS YRGILRAVRG SVSTERQEK KIKRLAISLI AIVLVCAPY HVLLLSRSAL YLGRPWDCGF EERFESAYHS SLAFTSLNCV ADPILYCLVN EGARSDVAKA LHNLRLFLAS DKPQEMANAS LTLEPLTSK RNSTAKAMTG SWAATPFSQG DQVQLKMLPP AQ	Homo sapiens
274	3866	G Protein- Coupled Receptor GPR6	NM_005284	atgaacgcga gcgcgcctc gctcaacgac tcccaggtgg tggtagtggc ggccgaagga A gcggcgccgg cgccacagc agcagggggg cggaacacgg gcgaatgggg accccctgct gcggcgctc taggagccgg cgccgagct aatgggtctc tggagctgtc ctgcagctg tcggctgggc caccgggact cctgctgcca gcggtgaatc cgtgggacgt gctcctgtgc gtgtcgggga cagtgatcgc tggagaaac gcctcgtgtg tggcgctcat cgcgtccact cgcgctgyc gcacgcccc gtctgtgctg gtgagcagcc tggccaccgc tgacctgtg gcgggctgtg gccatcatctt gcactttgtg ttccagtact tggcgccctc ggagactgtg agtctgctca cggtgggctt cctcgtggcc tccttcgccc cctctgtcag cagcctgctg gccattacgg tggaccgcta cctgtccctg tataacggcg tcacctatta ctgcgcgg accctgttgg gcgtgcacct cctgcttggc gccacttggg ccgtgacct agccctgggg ctgctgcccg tctgggctg gaactgctg gcagagcgcg ccgcttgag cgtgggtgccc cgcgtggcgc gcagccacgt ggctctgctc tcgcgcgctc tcttcaggtt ctcggcctc atgctgcacc tgtacgtgcy catctgccc gccaccccat ctgcctgcca ccagatcgcg ctgcagcagc actgcctggc ttcggcgccc agctggctgc ccttcgccc ctattgctg ctggctgtgg tctgggccc ttccggcgcc acttacgcca cctgctgccc cgcacacct gtgggcagcc atgaggaccc ggcggtctac acttacgcca cctgctgccc cgcacacct aactccatga tcaatcccat catctatgcc ttccgcaacc aggatccca gcgcgccc tggtcctcgc tctgtggctg ttccagtc aaagtgcctt ttcgttccag gtctccacg gaggtctga	Homo sapiens
275	3866	G Protein- Coupled Receptor GPR6	NP_005275.1	SQVVVVAEG AAAATAAGG PDTGEWGPFA AALGAGGGA NGSLSSQL P SAGPPGILLP AVNPWDVLLC VSGTVIAGEN ALVVALIAST PALRTPMEVL VGLATADLL AGCGLIHFV FQYLPSETV SLLTVGFLVA SFAASVSSL AITVDRLSL YNALTYSSR TLGVLHLLA ATWTVSLGLG LLPVLGNCL AERAACSVVR PLARSHVALL SAAFFMFGI MLHLYVRICQ VVWRHAHQIA LQOHCLAPPH LAATRKGVGT LAVLGTFGA SWLPFAIYCV VGSHEDPVY TYATLLPATY NSMINPIYA FRNQEIQRAL WLLLCGCFQS KVPFRSRSPS EV	Homo sapiens
276	3867	G Protein- Coupled Receptor GPR7	NM_005285	atggacaacg cctcgtctc ggagccctgg ccgcaccaag catcgggccc ggaccggcg A ctgagctgtc ccaacgctc gactctggcg ccgctgccc gcgcgtggc ggtgctgta ccagttgtct acgcgggtgat ctgcgccgtg ggtctggcgg gcaactccgc cgtgctgtac gtgtgtgtgc gggcgcccgc catgaagacc gtcaccaacc tgttcacct caacctggcc atgcgcagc agctcttcac gctggtgtg cccatcaaca tcgccgactt cctgctgccc cagtgggccct tcggggagct catgtgcaag ctcatcgtgg ctatcgacca gtacaacac	Homo sapiens

277	3867	G Protein- Coupled Receptor GPR7	NP_005276.1	MDNASFSEPW PANASGPDPA LSCSNASTLA PLPAPLAVAV PVYAVICAV GLAGNSAVLY P VLLRAPRMKT VTNLFILNLA IADELFILVL PINIADELLR QWPFGEIMCK LIVAIQYNT FSSLYFLTVM SADRYLVVLA TAESRRVAGR TYSAARAVSL AVWGIVTLVV LPFAVEARLD DEQGRQCQVL VFQPEAFWV RASRLYTLVL GFAPVSTIC VLYTTLCLRL HAMRLDSHAK ALERAKKRVF FLVAILAVC LLCWTPVHLS TVVALTDDLQ QTPLVIAISY FITSLTYANS CLNPFLYAFI DASFRRLRQ LITCRAAA	ttctccagcc ttacttctct caccgtcatg agcgccgacc gctacctggt ggtgttgccc actgcggagt cgcgcgggtt ggccggccgc acctacagcg ccgcgcgcgc ggtgagcctg gccgtgtggg ggatcgtcac actcgtcgtg ctgcctctcg cagtcttcgc ccggtagac gacgagcagg gccgcgcaca gtgcgtgcta gtctttccgc agcccgagcg cttctggtgg cgcgagagcc gccctetacac gctcgtgctg gctctcgcca tccccgtgc caccatctgt gtcctctata ccacctgct gtgcgggctg catgccatgc gctggatacg ccagcccaag gccctggagc gcgccaagaa gcgggtgacc ttctggtggg tggcaatcct gcgggtgtgc ctcctctgct ggagccctca ccacctgagc accgtggtgg cgctaccac cgacctcccg cagacgccgc tggctcatcg tatctctac ttcatcaca cctgacgta cgccaacagc tgctcaacc ccttctcta cgccttctg gacgccagct tccgcaggaa cctccgccag ctgataactt gccgcggcg agcctga	Homo sapiens
278	3868	G Protein- Coupled Receptor GPR8	NM_005286	atgcaggcgg ctgggcaacc agagccctt gacagcagg gctccttct cctccccag A atgggtgccca agctctctca ggacaatggc actggccaca atgccacctt ctcgagacca ctgccttcc tctatgtgct cctgcgccgc gtgtactcgg gcatctgtgc tgtggggctg actggcaaca cggcggtcat cctgtaatc ctaagggcg ccaagatgaa gacggtgacc aacgtgttca tctgaactt gccgtgccc gacgggctct tcacgtggt actgcccgtc aacatcgcg agcacctgct gcagtactgg cccttcgggg agctgctctg caagctggtg ctggccgctg accactaca catcttctc agcatctact tctagccgt gatgagcgtg gaccgatacc tgggtgtgct ggccacgtg aggtcccgcc acatgccctg gcgcacctac cggggggcga agtgcgccag cctgtgtgct tggctggcg tcacgttct gtttctgccc ttcttctct tcgctggcgt ctacagcaac gagctgcagg tcccaagctg tgggctgagc ttcccgggc ccgagcgggt ctggttcaag gccagccgtg tctacacttt ggtcctgggc ttcgtgtgc ccgtgtgac catctgtgtg ctctacacag acctcctcg caggctgcgg gccgtgcggc tccgctctgg agccaagct ctaggcaagg ccaggcgga ggtgaccgtc ctggtcctcg tgaccacgga cctgccccag acccaactgg tcatcagat gtcctacgtc atcacccagc tcacgtacg caactcgtc ctgaacccct tctctacgc ctttctagat gacaaactcc ggaagaactt ccgagcata ttgcggtgct ga	atgcaggcgg ctgggcaacc agagccctt gacagcagg gctccttct cctccccag A atgggtgccca agctctctca ggacaatggc actggccaca atgccacctt ctcgagacca ctgccttcc tctatgtgct cctgcgccgc gtgtactcgg gcatctgtgc tgtggggctg actggcaaca cggcggtcat cctgtaatc ctaagggcg ccaagatgaa gacggtgacc aacgtgttca tctgaactt gccgtgccc gacgggctct tcacgtggt actgcccgtc aacatcgcg agcacctgct gcagtactgg cccttcgggg agctgctctg caagctggtg ctggccgctg accactaca catcttctc agcatctact tctagccgt gatgagcgtg gaccgatacc tgggtgtgct ggccacgtg aggtcccgcc acatgccctg gcgcacctac cggggggcga agtgcgccag cctgtgtgct tggctggcg tcacgttct gtttctgccc ttcttctct tcgctggcgt ctacagcaac gagctgcagg tcccaagctg tgggctgagc ttcccgggc ccgagcgggt ctggttcaag gccagccgtg tctacacttt ggtcctgggc ttcgtgtgc ccgtgtgac catctgtgtg ctctacacag acctcctcg caggctgcgg gccgtgcggc tccgctctgg agccaagct ctaggcaagg ccaggcgga ggtgaccgtc ctggtcctcg tgaccacgga cctgccccag acccaactgg tcatcagat gtcctacgtc atcacccagc tcacgtacg caactcgtc ctgaacccct tctctacgc ctttctagat gacaaactcc ggaagaactt ccgagcata ttgcggtgct ga	Homo sapiens
279	3868	G Protein- Coupled Receptor GPR8	NP_005277.1	MQAAGHPEPL DSRGFSLEPT MGANVSQDNG TGNATFSEP LPFLYVLLPA VYSGICAVGL P TGNATVILVI LRAPKMTVT NVFILNLAVA DGLFTLVLPV NIAEHLQYV PFGEILLCKLV LAVDHYNIFS SIYFLAMVSV DRYLVVLATV RSRHMPWRTY RGAASLVCV WLGVTVLVLP FFSFAGVYSN ELQVPCGLS FPWPERVWEK ASRVYTLVLG FVLPVCTICV LYTDLLRRLR AVRLRSKAKA LGKARKKTV LVLVVLAVCL LCWTFPHLAS VVALLTDLPQ TPLVISMYSY ITSLTYANSC LNPFLYAFID DNFKNFRSI IRC	ttctccagcc ttacttctct caccgtcatg agcgccgacc gctacctggt ggtgttgccc actgcggagt cgcgcgggtt ggccggccgc acctacagcg ccgcgcgcgc ggtgagcctg gccgtgtggg ggatcgtcac actcgtcgtg ctgcctctcg cagtcttcgc ccggtagac gacgagcagg gccgcgcaca gtgcgtgcta gtctttccgc agcccgagcg cttctggtgg cgcgagagcc gccctetacac gctcgtgctg gctctcgcca tccccgtgc caccatctgt gtcctctata ccacctgct gtgcgggctg catgccatgc gctggatacg ccagcccaag gccctggagc gcgccaagaa gcgggtgacc ttctggtggg tggcaatcct gcgggtgtgc ctcctctgct ggagccctca ccacctgagc accgtggtgg cgctaccac cgacctcccg cagacgccgc tggctcatcg tatctctac ttcatcaca cctgacgta cgccaacagc tgctcaacc ccttctcta cgccttctg gacgccagct tccgcaggaa cctccgccag ctgataactt gccgcggcg agcctga	Homo sapiens

280	3869	G Protein- Coupled Receptor HM74	NM_006018	cgccactttg ctggagcatt cactagcgga ggcgctccat cggactcaat agccgcactc A atgaatcggc accatctgca ggaactctt ctggaatag acaagaagaa ctgctgtgtg ttccagatg acttcattgc caagtggttg ccgcggtgt tgggcttgga gtttatcttt gggcttcttg gcaatggcct tgccctgttg atttctgtt tccacctcaa gtccctggaa tccagccgga tttctctgt caactggca tgactgact ttctactgat catctgctg cggctcgtga tggactacta tgtgcggcgt tgaactgga actttgggga catcccttgc cggctggtgc tcttcattgt tgccatgaac cgccaggga ccatcatctt cctcacggtg gtggcggtag acaggatatt cgggtgtgtc catccccc accgctgaa caagatctcc aatggacag cagccatcat ctctgtctt ctgtgggga tcaactgttg cctaacagtc cacctcctga agaagaagt gctgatccag aatggccctg caaatgtgtg catcagcttc agcatctgcc ataccttcg gtggcagaa gctatgttcc tccctgagtt cctcctgccc ctgggcatca tccgtgtctg ctacagccaga attatctgga gcctgggga gagacaaatg gaccgcatg ccaagatcaa gagagccatc acctcatca tgggtgtggc catcgtcttt gtcatctgct tccctcccag cgtggtgtg cggatccga tcttctggct cctgcacatc tcgggcacgc agaattgtga agtgtaccg tcggtggacc tggcgttctt tatcactctc agcttcacct acatgaacag catgctggac cccgtgtgt actacttctc cagcccatcc tttcccaact tcttctccac ttgtatcaac cgtgctctc agaggaagat gacaggtgag ccagataata accgcagcac gagctcgag ctacacaggg acccaacaa aaccagaggc gtccagagg cgttaatggc caactccgt gagccatga gccctctta tctgggccc acctcaata accattccaa gaaggacat tgtcaccaag aacagcatc tctggagaaa cagttgggct gtgcatcga gtaatgtcac tggactggc ctgaagtttc ctggaacttc cagattcaga gaatctgatt taggaaact tagggagag agtgggagac tgggtgcaag gttgaccac aggaatcctg gaggaacaga gactaaagt tctaggcatc tgaacttgc ttcatctctg acgctcgag gactgaagat gggcaaatg taggcgttct tctgagcag agttggagcc agagatctac ttgtgacttg ttggccttct tccacatct gcctcagact gggggggct cagctcctg ggtgatatct agcctgcttg tgagctctag cagggataag gagagctgag attggaggga attgtgttgc tccctggagga agccaggga tcattaaaca agccagttag tcacctggct tccgtggacc aattcatct tcagacaagc tttagagaaa tggactcagg gaagagactc acatgcttg gtagtatct gtgttcccg tgggtgtaat aggggattag cccagagga gactgagta aacagtgtta ttatgggaaa ggaatggca ttgctgcttt caaccagca ctaatgcaat ccattcctct ctgtttata gtaatctaa ggttgagcag ttaaacggc ttcaggatag aaagctgtt cccacctgtt tcgttttacc attaaaaggg aaacgtgcct ctgccccacg gtagagggg gtgcacgttc ctcctgggtc ctcgcctgt gttctgtac ttacccaaaa tctaccact caataaatt tgataggaga caaaaaaaa a	Homo sapiens
281	3869	G Protein- Coupled Receptor HM74	NP_006009.1	MNRHLQDHF LEIDKKNCCV FRDDFIKVL PPVLGLEFIF GLLGNLALW IFCFHLKSWK P SSRIFFENLA VADFLIICL PFVMDYYVR SDWNFGDIPC RLVLFMFAMN RQGSIIFLT VAVDRYFRV HPHALNKIS NWTAAIISCL LMGITVGLTV HLLKKLLIQ NGPANVCISF SICHTFRWHE AMELLEFLLP LGIILFCSAR IWSLRQRM DRHAKIKRAI TEIMVAIVE VICFLPSVV RIRIFWLHT SGTQNCVYR SVDLAFFITL SFTYNSMLD PVVYFSSPS FPNFFSTLIN RCLQRMTGE PDNRRSTVE LTGDPNKTRG APEALMANS EPWSPSYLGP	Homo sapiens

282	3870	G Protein- Coupled Receptor OGRI	NM_003485	TSNNHKKGH CHQEPASLEK QLGCCIE.	atggggaaaca tcactgcaga caactctcg atgagctgta ccatacgacca taccatccac A cagacgctgg ccccggtggt ctatgttacc gtgctggtgg tgggcttccc ggccaactgc ctgtccctct acttcggcta cctgcagatc aagggccgga acgagctggg cgtgtacctg tgcaacctga cggtgccga cctcttctac atctgtctgc tggccttctg gctgcagtac gtgctgcagc acgacaactg gtctcaccg gacctgtcct gccagggtgtg cggcatcctc ctgtacgaga acatctacat cagcgtgggc ttcctctgct gcatctcgt ggaccgctac ctggctgtgg cccatccctt ccgctccac cagttccgga cctgaaggc ggccgtcggc gtcagcgtgg tcatctgggc caaggagctg ctgaccagca tctacttctt gatgcacgag gaggtcatcg aggaagagaa ccagcacgc gtgtgctttg agcactacc catccaggca tggcagcgcg ccataacta ctaccgcttc ctggtgggct tctcttccc catctgctg ctgctggcgt cctaccaggg cactctgcg gccgtggcc ggagccacgg caccagaag agccgaagg accagatcca gggctggtg ctacagcagg tggcatctt cctggcctgc ttcctgccct accagtggtt gctgctggtg cgcagcgtct gggaggccag ctgcgacttc gccaaaggcg ttttcaacgc ctaccacttc tccctctgc tcaccagctt caactgcgtc gccgaccccg tgcctactg ctctcagc gagaccacc accgggacct ggcgcgcctc cgcggggcct gccctggcctt cctcacctgc tccaggaccg gccggggccag ggaggcctac ccgctgggtg ccccgaggc ctccgggaaa agcggggccc aggtgagga gcccgagctg ttgaccaagc tccaccggc ctccagacc cctaacgacc cagggtcggg cgggttcccc acgggcaggt tggcctag	Homo sapiens
283	3870	G Protein- Coupled Receptor OGRI	NP_003476.1	MGNITADNSS MSCITDTH QTLAPVVVT VLVGFPANC LSLYFGYLI KARNELGVYL P CNLTVDLFY ICSLPFWLQY VLQHDNWSHG DLSCQVCGIL LYENIYISVG FLCCISVDRY LAVAHPRFH QFRTLKAAVG VSVIWAKEE LSIYFLMHE EVIEDENQHR VCFEYPIQA WQRAINYYRF LVGFLFPICL LLASYQGILR AVRRSHGTQK SRKDQIQRLV LSTVWIFLAC FLPYHVLLLV RSVWEASCDF AKGVFNAYHF SLLLTSENCV ADPVLYCFVS ETTHRDLARL RGACLAFLTC SRTGRAREAY PLGAPEASGK SGAQGEPEL LTKLHPAFQT PNSPGSGGFP TGRLA	Homo sapiens	
284	3921	Prostacyclin Receptor	NM_000960	agcaagtga ggcacagacg caggggacag gagagcctgg gcaagactgg agagcccaga A cctgggatgg cggattcgtg caggaacctc acctacgtgc ggggctcggg ggggccggcc accagacccc tgatgttcgt ggcgggtgtg gtgggcaacg ggctggccct gggcatcctg agcgacaggc gaccggcgcg cccctcgcc ctctctgagc ccggcgtgt tcgtggccta tgcgcgcaac accgacctgc tgggcaaccag ctctctgagc cccgccccgt ccgatgcctt cgccttcgcc agctccctgc tgggcttggc cagagggcg gccgccccgt ccatggcctt ggccttcgcc atgaccttct tcggcctggc gtccatgctc atctctttt ccatggcctt ggagcgtgc ctggcgctga gccaccccta cctctacgag cagctggagc ggccccgctg cgcgcgctg gcgctggcag ccactacgc ctctcgctc ctcttctgag cgtgccccct gctgggctg ggccaaacc agcagtactg ccccgagc tgggtcttcc tccgcatgct gctgggccccg ccgggcggcg ccgctcttc gctggcctac gccggcctg tggccccgt ggtggctgcc atcttctctt gcaacggctc ggtcacctc agcctctgcc gcatgtacc ccagcagaag cgccaccagg gctctctggg tccacggcg cgcaccggag aggacgaggt ggaccacctg	Homo sapiens	

285	3921	Prostaglandin Receptor	NP_000951.1	<p>atcctgtg cccatcatgac agtgggtcatg gccgtgtgct cctgcctct cactgccgcg tgcttacc aggctgtgc cctgacagc agcagtga tggggaccc cctgccttc cgcttacc ccttcaacc cactcggac cctgggtctc tcatcctttt cgcgaagct gtcttccag gactcaagct ctgggtctgc tgcctgtgcc tgggacctgc ccacggagac tcgcagacac ccttttccca gctgcctcc gggagggagg acccaagggc cctctctgct cctgtgggaa aggaggggag ctgctgacct ttgctggctt gggcgagggg caggttggag cccttgctc ccacacagca gtccagcgc agcgcctgg gaaactgctc caaagcagaa gccagcgtc cctgctccct ctgctgacct ttaagctga cctgtgatc tctgacctgt cttcgggga caggagccag aaatcaggg acatggctga tggctggga tctgggaacc ttggccccc aactctggg ccgatacgt gctgttctc ctgcggcagg gcagtcgctg ctggctctgg gaagagagt agggacagag gaaacgttta tccctgagtg cagaaagaat ggttctctca aaataaccag tggcctggc gactgctct ggccctggat tcccatacca tctcattgtc taaatattta gaagcggag aagtccctc aggtctctgt acagtcaggt ctgctctggt ctgggtgctg gctccaatct gctccaatct agggagccca actgcccacc ccaagtccc agggatggc cctcccctc taccagcca ctccaagagc cagccccctt tctgctccac aaaaccaca gttattgga aagctccctg ccttcccttg ccgctggtcc ccacacaggc ttgggagccc tggcatccca aaggggaaag gggagctgct gcattgtggg tgatgacgta ggacatgtgc ttggtacaaa aagggcctga gacattccac ct</p>	Homo sapiens
286	3923	Prostaglandin n D2 Receptor	U31099	<p>ct MADSCRNLTY VRGSGVPATS TLMFVAGVVG NGLALGILSA RRPARSFAA VLVTGLAATD P LLGTSFLSPA VFVAYARNSS LLGLARGGPA LCDAFAMT FFLASMLIL FAMAVERCLA LSHPYLYAQL DGPRCARIAL PAIYAFVLF CALPLILGQ HQYCPGSMC FLRMWAQPG GAFLSAYAG LVALIVAAIF LCNGSVTSL CRMYRQRRH QGSLGPRPT GEDEVHLLIL LALMTVMVAV CSLPLTRCF TQAVAPDSS EMGDLLAFRF YAFNPILDPW VFILFRKAVF QRLKLVCCCL CLGPAHGDSDQ TPLSQLASGR RDRAPSAAPV GKEGSCVPLS AWGEGQVEPL PPTQSSGSA VGTSSKAEAS VACSLC gctgtgcaac ctggcgcca tgcgcaacct ctatgcgatg caccggcggc tgcagcgga A ccgcgctcc tgcaccaggg actgtgccga gccgcggcg gacgggaggg aagcgtcccc tcagcccttg gaggagctgg atcacctct gctgctggcg ctgatgaccg tgccttcac tatgtgtct ctgcccgtaa tttatcgcc ttaactatga gcatthaagg atgtcaagg gaaaaacagg acctctgaag aagcagaaga cctccgagcc ttgcgatttc tatctgtgat ttcaattgtg gaccttga tttttatcat tttcagatct ccagtatttc ggatatttt tcacaagatt ttcattagac ctcttagta caggagccgg tgcagcaatt ccactaacat ggaatccagt ctgtgacagt gtttttcaat ctgtgggtaag ctgaggaata tgtcacattt tcagtcaaa aacca MKSPFYRCQN TTSVEKNGSA VMGGVLFSTG LLGNLLALGL LARSGLWCS RRLRLPSV P FYMLVCGITV TDLLGKCLIS PVVLAAYQN RSLRLAPAL DNSLQAF FMSFFGLSST LQLLMALEC WLSLGHFFY RRHITRLGA LVAPVSAFS LAFALPFMG FGKVFQYCPG TWCFIQVHE EGSLSVLGYS VLYSSIMALL VLATVLCNLG AMRNLAMHR RLQRHPRST RDCAEPRADG REASPQPLEE LDHLLLLALM TVLFTMCSLP VIYRAYGAF KDVKEKNRTS EEAEDLRLR FLVISIVDP WIFIIFRSPV FRIFHKIFI RPLRYSRCS NSTNMESL</p>	Homo sapiens
287	3923	Prostaglandin n D2 Receptor	Q13258		Homo sapiens

288	3924	Prostaglandin E1 Receptor	NM_000955	<p> gggggaggca gggctgagcg gccgtgatg ggaacccac atccaggca gtccggcac ccctggcgc tgacatgagc ccttgcgggc cctcaacct gagctggcg ggcaggcga ccacatgcg ggcggcctgg gtcccaaca cgtcgccgtg gccggctcg ggcgttcgc ccgctgccc catcttccc atgacgtgg gcgcgtgtc caacctgtg gcgtggcgc tgctggcga ggcggcggc cgcctgcgac gcgcgcgtc ggcacacc ttcctgtgt tcgtggccag cctgctggc accgacctgg cggccactg gacccgggc gcgtgggtg tggtctgta cactgcggg cgcgtccgg ccggcgggg ctcaccctc ctgggggct gcatggtctt ctcggcctg tgccgctgc tgctggctg tgccatggc gtggagcgt gcgtggcgt cagcgcccg cgtctccacg ccgcggggt cctgctgcg ccgcgcgcg tgccgtggc cgcgtggcc gcgtggcct tgccgtggc gctgctggc ctggcgcg tgggccgcta tgagctgcag taccgggca cgtggtgct catcgccct ggccccgg gcgtggcg ccaggcactg cttgctggc tctcgccag cctggcctg gtcgcgtcc tcgcgcgt ggttgcaac acgtcagcg gctggccct gcctggcc cgtggcgac gcgtcccg acggcctcc ccggcctcag gcccgacag ccgctcgc tggggggcg acggaccccg ctcggcctc cctcgctcc cctcgctcc cgtgctcc tccacctct ttggcgctc tcggagcag ggcctggcag gcagagctc gcccacgac gtggagatgg tgggccagct tgcgtatc atgtgtgtg cgtgcatctg ctggagccca atgtgtgt tggtggcgt ggcgtcgcc ggcgtgagct ctacctcct gcagcgcca ctgtctctg ccgtgcctt ggcctcctg aaccagatcc tggaccttg ggtgtacat ctactggcc agcccgctt ggcacaactg cctcgctctt gcccgcag ggccggagc aaggcgcc ccgggggct gggcctaaca ccgagcctt gggagccag ctcgctgc agtcccgcc acagcgccct cagccactc taagcacaac cagagggcca acgactaag cagccacc tggtgggct caggtgcgc ggcgcagcg cttgggaat aaaaagccat tctgcg MSPCPLNLS LAGEATCAA PWPNTSAPV PSGASPALPI FSTMLGAVSN LLALLAQA P AGRLRRRSA TTFLLFVASL LATDLAGHVI PGALVRLYT AGRAPAGGAC HFLGGCMVFF GLCPILLGCG MAVERCVGVT RPLLHAARVS VARARLALAA VAAVALAVAL LPLARVGRYE LQPGTWCFI GLPGGWRQ ALLAGLEASL GLVALLAALV CNTLSGLALH RARWRRSR PPASGDSR RRGHGRS ASASSASSIA SASTFFGSR SSGSARRARA HDVEMVGLV GIMVSCICW SPMLVLA VGGWSSTSLQ RPLFLAVRIA SNQILDPMV YILLRQAVLR QLRLPPRA GAKGGPAGLG LTPSAWEASS LRSSRHSLG HF ggggcgccgt cggcgcgctg ggtgcggaa gggggtctg gatttcggt cctcccttt A ttctctgag tctcgaaacg ctcagctct cagacctct tctccagg taaaggccgg gagagaggg cgcactctt ttccaggcac ccacacatgg gcaatgcctc caatgactcc cagctgagg actcgagac gcgacagtgg cttcccccag gcgaaagccc agccatcagc tcgtcatgt tctcgcccg ggtgctggg aaacctatg cactggcgt cgtggcgcc cgctggcgg gggacgtgg gtgcagcgc ggcgcgagga cctccctctc cttgttccac gtgctggtga ccgagctggt gttcacgac ctgctcgga cctgcctcat cagccagtg gtactggctt cgtacgcgc gaaccagacc ctggtggcac tggcgccga gacccgcg tgacctact tgccttcgc catgacctc ttacgctgg ccacgatgt catgtcttc gccatggccc tggagcgcta cctctcgatc gggcaccct acttaccac gcgcgcgtc tcggcctccg gggcgctggc cgtgctgct gtcactatg cagtctcct cgtctctgc </p>	Homo sapiens
289	3924	Prostaglandin E1 Receptor	NP_000946.1	<p> MSPCPLNLS LAGEATCAA PWPNTSAPV PSGASPALPI FSTMLGAVSN LLALLAQA P AGRLRRRSA TTFLLFVASL LATDLAGHVI PGALVRLYT AGRAPAGGAC HFLGGCMVFF GLCPILLGCG MAVERCVGVT RPLLHAARVS VARARLALAA VAAVALAVAL LPLARVGRYE LQPGTWCFI GLPGGWRQ ALLAGLEASL GLVALLAALV CNTLSGLALH RARWRRSR PPASGDSR RRGHGRS ASASSASSIA SASTFFGSR SSGSARRARA HDVEMVGLV GIMVSCICW SPMLVLA VGGWSSTSLQ RPLFLAVRIA SNQILDPMV YILLRQAVLR QLRLPPRA GAKGGPAGLG LTPSAWEASS LRSSRHSLG HF ggggcgccgt cggcgcgctg ggtgcggaa gggggtctg gatttcggt cctcccttt A ttctctgag tctcgaaacg ctcagctct cagacctct tctccagg taaaggccgg gagagaggg cgcactctt ttccaggcac ccacacatgg gcaatgcctc caatgactcc cagctgagg actcgagac gcgacagtgg cttcccccag gcgaaagccc agccatcagc tcgtcatgt tctcgcccg ggtgctggg aaacctatg cactggcgt cgtggcgcc cgctggcgg gggacgtgg gtgcagcgc ggcgcgagga cctccctctc cttgttccac gtgctggtga ccgagctggt gttcacgac ctgctcgga cctgcctcat cagccagtg gtactggctt cgtacgcgc gaaccagacc ctggtggcac tggcgccga gacccgcg tgacctact tgccttcgc catgacctc ttacgctgg ccacgatgt catgtcttc gccatggccc tggagcgcta cctctcgatc gggcaccct acttaccac gcgcgcgtc tcggcctccg gggcgctggc cgtgctgct gtcactatg cagtctcct cgtctctgc </p>	Homo sapiens
290	3925	Prostaglandin E2 Receptor	NM_000956	<p> ggggcgccgt cggcgcgctg ggtgcggaa gggggtctg gatttcggt cctcccttt A ttctctgag tctcgaaacg ctcagctct cagacctct tctccagg taaaggccgg gagagaggg cgcactctt ttccaggcac ccacacatgg gcaatgcctc caatgactcc cagctgagg actcgagac gcgacagtgg cttcccccag gcgaaagccc agccatcagc tcgtcatgt tctcgcccg ggtgctggg aaacctatg cactggcgt cgtggcgcc cgctggcgg gggacgtgg gtgcagcgc ggcgcgagga cctccctctc cttgttccac gtgctggtga ccgagctggt gttcacgac ctgctcgga cctgcctcat cagccagtg gtactggctt cgtacgcgc gaaccagacc ctggtggcac tggcgccga gacccgcg tgacctact tgccttcgc catgacctc ttacgctgg ccacgatgt catgtcttc gccatggccc tggagcgcta cctctcgatc gggcaccct acttaccac gcgcgcgtc tcggcctccg gggcgctggc cgtgctgct gtcactatg cagtctcct cgtctctgc </p>	Homo sapiens

291	3925	Prostaglandin E2 Receptor EP2	NP_000947.1	<p> tgcctgccgc tgcctgagcta tggcgagtag gtccagtagt gccccggag ctggtgcttc atccggcacg ggcggaccgc ttaccgtcag ctgtacgcca cctgctgct gcttctcatt gtctcggtgc tcgctgcaa ctccagtgc atttcaacc tcaccgcat gcaccgcga agccggagaa gccgtgcgg accctccctg ggcagtggcc ggggcgccc cctggctatc aggagagggg aaagggtgc catggcgag gagacgacc accctattct cctggctatc atgaccatca ccttcgctg ctgctccttg ccttccaga ttttgcata tatgaatgaa acctcttccc gaaaggaaa atgggacctc caagctctta ggttttctc aatgaattca ataattgacc cttgggtctt tgccatcctt aggcctcctg ttctgagact aatgcgttca gtcctctgtt gtcggatttc attaagaaca caagatgcaa cacaaacttc ctgttctaca cagtcagatg ccagtaaca gctgacctt tgaggtcagt agttttaaag ttcttagtta tatagcatct ggaagatcat ttgaaattg ttccctggag aatgaaaaa agtgtgtaaa caaatgaag ctgccctaata aaaaaggagt atacaaacat ttaagctgtg gtcaaggcta cagatgtgct gacaaaggcac ttcatgtaaa gtgtcagaag gagctacaaa acctaccctc aatgagcatg gtacttggcc ttggaggaa caatcgctg cattgaagat ccagctgctt attgatttaa gcttctctgt tgaatgacaa agtatgtgtt ttgttaattt gtttgaacc ccaaacagtg actgtacttt ctattttaat ctgtctacta ccgttatata catatagttg acagccagac cagattaaac ttcatatgta atctctagga agtcaaatg tggaaagcaac caagcctgct gtcttctgat cacttagcga accctttatt tgaacaatga agttgaaaaat cataggcacc ttttactgtg atgttctgt atgtggagt actctcatca ctacagtatt actcttaca gactggactc agtgggttaa catacagtttt gtttactcat cctccaggaa ctgcaggtca agtgtcagg ttatttattt tataatgtcc atgtctaat agtgatcaag aagactttag gaatgttct ctcaacaaga aataatgaa atgtctcaag gcagttaatt ctcattaata ctcttattat cctatttctg ggggaggatg tacgtggcca tgtatgaagc caaatattag gcttaaaaac tgaaaaatct ggttcattct tcagataac tggaaacctt ttaaagtga tattggggcc atgagtaaaa tagattttat aagatgactg tgttgtaaca aaattcatct gtctatattt tatttagggg aacatgggtt gactcatctt atatgggaaa ccatgtagca gtgagtcata tcttaataa ttctaaaatg ttggcagtg aatgtaaac tcagcatcaa aatatttcag tgaatttga ctgtttaatc atagtactg tgtaaaactca tctgaaatgt tacaaaaata aactataaaa ca </p>	Homo sapiens
292	3926	Prostaglandin E2 Receptor EP3	L32662	<p> MGNASNDQS EDCETRWLP PGESPAISSV MFSAGVLGNL IALALLARRW RGDVGSAGR P RSSLFLFVL VTELFTDL GTCLISPVVL ASYARNQTLV ALAPESRACT YFAFAMTFES LATMLLFAM ALERYLSIGH PFYQRRVSA SGGLAVLPVI YAVSLFLCSL PLDDYQYVQ YCPGTWCFIR HGRTAYLQLY ATLLLLIVS VLACNFESVL NLIRHRRSR RSRGSPSLGS GRGGPGARRR GERVSMAEET DHLILLAINT ITFVCSLPF TIFAYMNETS SRKEKWDLOA LRFLSINSII DPWFALIRP FVLRLMRSLV CCRISLRTQD ATQTSCTQS DASKQADL atgagaaaaa gaagactcag agagcaagag gaattttggg gaaattaa A </p>	Homo sapiens
293	3926	Prostaglandin E2 Receptor EP3	NM_000957	<p> accagaggtt tcccagagag gaaggcgtgg ctccctccc ggcagtagg ccctggcgcc A gccgcggccg cggctcccag agcggagtag ggcggcggtt gcgccccga ccatggggg cagccccagc ccagccggcg taaacgcga cctccgcgc gcgccgcgc gcgtctgccc </p>	Homo sapiens

294	3926	Prostaglandin E2 Receptor EP3	NP_000948.1	ac	cctccgcgtg cggctctctg gacgccatcc cctcctcacc tcgaagccaa catgaaggag accggggct acggaggga tgcccccttc tgacccgcc tcaaccact ctacacaggc atgtggcgc ccgagcgttc cgcgagcgc cggggcaacc tcacgcgcc tccagggtct ggcagagatt gcgagcgtt gtcgctgctc tcctccgatc ccatgctgct cactggttcc gtggcaacg cactggccat gctgctcgtg tgctgcagtc acgggcgcg ggagagcaag cgaaagaat ccttcctgct gtgcatcggc tggctggcgc tcaccgacct ggtcgggcag cttctacca ccccgctcgt catcgctgtg tacctgtcca agcagcgttg ggagcacatc gacccgtcgg ggcggctctg caccttttcc gagcgggcgc tggccatcag ggcgcgcac tcgttgttca tcgccagcgc catggccgtc gagcgggcgc tgcgtcctg cgtgtggctg tggatgcga gccacatgaa gacgctgccc acccgctg cgtgtcctg cgtgtggctg gccgtgctcg ccttcgccc gctgcgctg ctagcgttg gccagtagac cgtccagtgg cccgggacgt ggtccttcat cagcacccgg cgaggggca acgggactag ctcttcgeat aactgggga accttttctt cgcctctgcc ttgcccctcc tgggctctt ggcgtgaca gtcacctttt cctgaaacct ggccacctt agggccctgg tgtcccgctg ccgggccaag gccacggcat ctcagtcag tgcccagtgg ggcgcgata cgaccgagac ggcattcag cttatggga tcatgtcgt gctgtcgtc tgctggtctc cgtcctctgat aatgatgttg aaaatgatct tcaatcagac atcagttgag cactgcaaga cacacacga gaagcagaaa gaatgcaact tcttctaat agctgttcgc ctggcttcc tgaaccagat cttggatcct tgggtttacc tgcgtttaag aaagatcctt cttcgaagt ttggccagat gaaaaaga agactcagag agcaagat ggggcctgat ggaagtggt ttgtctatgc atggaggcag gtccccagga cttggtgcag ttctcatgat agagaacct cagtgctcca gctaagctga tgacttgaag ataaatctgc ctaacccctgg gatgaagtat cgtgaaacta ttttgacagc agataggaa ttttgggaa attaaacct gccttctgc caggtacaca tcaactggaag ctccatgact ccttttttgt aaaaagaaaa aaatcacag aaacacccac ctccaaact attctctttt acttctccc ccaagccac ccccaaatat aactgttct cagaagctgt tatgtcctgt ttccatcat gttttgtac ttttactata tctacatata caaattaaac ttatgtccta ttgttttgtg aatttatatt tgcgtatata ttatcatatg taaaatttgc atttttttat tgaataattat gtttcttgag atttatccac attgaaacat ggagctctaa atcgtttaatt ttaaccgcta tagagtattc cataatttga ataaagcata atttgtttgt ac	Homo sapiens
295	3927	Prostaglandin E4 Receptor EP4	NM_000958		cgccacagcc tcacacctga acgctgtcct cccgcagac agaccggcg gcaactgcaa A gctgggactc gtctttgag gaaaaaaat agcagtaga aatccagca ccattcttca ctgacccatc ccgctgcacc tcttgtttcc caagtttttg aaagctggca actctgacct cgggtgtccaa aaatcgacag ccaactgagac cggcttttag aagccgaaga ttggcagtt	Homo sapiens

296	3927	Prostaglandin E Receptor EP4	NP_000949.1	<p> tccagactga gcaggacaag gtgaaagcag gttgaggcg ggtccaggac atctgagggc tgacctggg ggctcgtgag gctgccaccg ctgctgcgc tacagacca gcttgcaact ccaagctgc gcacgccag ccaatacat gtccactccc ggggtcaatt cgtccgcctc cttgagcccc gaccgctga acagccagt gacctccc gcggtgatgt tcactctcgg ggtggtggc aacctgtgg ccatcgtgt gctgtgcaag tcgcgcaagg agcagaagga gacgacctc tacacgtgg tatgtggct ggctgtacc gacctgtgg gcaattgtt ggtgagcccc gtgacctcg ccacgtacat gaagggtccaa tggccccggg gccagccgt gtgcagtag agcacttca ttctgtctt cttagctcg tccggcctca gccatcatctg cgccatgagt gtcgagcgt acctggccat caacctgac tatttctaca gccactacgt ggacaagcga ttggcgggcc tcacgtctt tgacgtctat gctcccaacg tgcctctttg cgctgccc aacatgggtc tcggtagctc gcggtgcag taccagaca cctggtgctt catcagctgg accaccaacg tgacggcga cgcgcctac tctacatgt acgcgggctt cagctcctc ctcatctcg ccaccgtct ctgcaacgtg cttgtgtcg gcgctgct ccgcatgcac cgcagttca tgcgcgcac ctgcgtggc accagagc accacgcgc cgcgccgccc tcggtgctt cccggggcca cccgctgc tccccagct tgcgcgct cagcagctt cgcgccgccc ggagcttcg cgcctgcg cgcgcgaga tccagatggt catcttactc attgccact cctggtgtg gctcatctg tccatccgc tccgtgtgctg agtattcgtc aacctgtat atcagccaag ttgagagca gaagtcagta aaatccaga tttgaggccc atccgaattg cttctgtga cccatctca gacctgga tatatactc cctgagaaag acagtgtca gtaagcaat agagaagatc aaatgctct tctgcgcgat tgccgtgccc cgcaggagc gctccggaca cctccgtca gacagtcga ggacatctc tgccatgtca ggcacttc gctcctcat ctccggag ctgaaggaga tcagcagtag atctcagacc ctcccgccag acctcact gccagacct agtgaatg ccttgagg caggaattg ctccaggtg tgcctggcat gggcctggc caggaagaca ccactcact gaggacttg cgaatcag agacctcaga ctcttcacag ggtcaggact cagagatgt cttactgtg gatgagctg gtggagcgg caggctggg cctgccccct aggggagctc cctgcaagtc acatttcca gtgaacacat gaactatca gaaaatgta tataataggc aaggaagaa atacagtag gtttctggc cttataaaa tctgtgcaa tagacacata catgtcacat ttagctgtc tcagaaggc tatcatca LAVTDLLGL LVSPVTIATY MKGQWPGQP VTI PAVMFIF GWVGNLVAIV VLCKSRKEQK ETTFYTLVCG P INHAYFYSHY VDKRLAGLTL FAVYASNVLF CALPNMGLGS SRLQYPTWC FIDWTTNVT HAAYSYMYAG FSSFLILATV LCNVLVCGAL LRMHQFMRR TSLGTEQHA AAAASVASRG HPAASPALPR LSDFRRRRSF RRIAGAEIQM VILLIATSLV VLICSIPLV RVFWNLQYQ SLEREVSKNP DLQAIRIASV NPILDPIYI LLRKTVLSKA IEKIKLFCR IGGSRRESG QHCSDSQRTS SAMSGHSRSF ISRELKEISS TSQTLPLDLS LPDSENGLG GRNLLPGVP MGLAQEDTTS LRTLRISETS DSSQGDSES VLLVDEAGGS GRAGPAPKGS SIQVTFPSET LNLSKCI </p>	Homo sapiens
297	3928	Prostaglandin F2-alpha Receptor	NM_000959	<p> ggcgcggggc gccatggcac accgagcggc tccgtcttct gctcctcaga gagcccgct A ggcgccctgg gatgacaaga tgtctggact gcaatcctgc acagttttga gagggagatg acttgagtggt ttggctttta tctccacaac aatgtcccat aacaattcca aacagctagt </p>	Homo sapiens

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taaatataa agtcagcagc acagacaagg cagatctcat catttgaaa tggtaattcca
gtctcgtggc ataattgtg tctcctgtat ttgttgagg ccatttctgg ttacaatggc
caacattgga ataatggaa atcattctct ggaaacctgt gaaacaacac ttttgcctct
ccgaatggga acatggaatc aaatcttaga tccctgggtg gtagtgcatt tctacagctt
tgtccttaag aatctctata agcttgccag tcaatgctgt gtagtgcatt tctacagctt
acataatttg gagcttagtt ccattaaaaa ttccttaag gtgtgtgcta ttctgagtc
accagttgca gagaaatcag caagcaccta gcttaatagg acagtaaatc tgtgtggggc
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ctggaaaatt caggcttcat catgtagttt gaagatacta ttgtcagatt caggttttga
aatttgtcaa ataaacagga taactgtaca ttttactt gtttttgcca atgggaggtta
gacacaataa aataatggca tgggagtcac actgaaagca attttgagct tatctgtctt
atttatgctt tgagtgaatc atctgttgag gtctaagtc tctactggc ctatttgcca
gagaacatct taatgcagcc tgcatagtga aatggttatt ttgagatcac cgctctgtag
ctaaccctta taaactaggc tcagtaaaat aaagcactct tatttttga tctggcctat
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gatggtttgt tataacaacc tctgcatatt ccagggtctgg cagacaggtt gcctgacctt
gcaatcctat ctagaatggg cccattcttg tcacatttga caaataggac tgcctacatt
tattattatg aaggtcgatt gttgttgaa gtgttttttc atgtcataga ttgcaaat
tcaataaatt atttttctc tgaataattt gtgtgtgatt gcacaataa taatttttag
agaaacaaag gctctttctc agcacattga tgggcaacta gaattacagc agtttcaaac
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tggcaaaaag tgctttacct tgagccatta ttgtgttcag agaacaaga aaacagaatc
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acagacatca gaaaatctg ttgagagcag gttcatataa ttgttaagat ggcataattc
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tattataaca attaaactagg agatcaagag ataataatct ctccccaat tttccaataa
taattgagac tttttcttg ctgtttgtg taattcaacc aaagaattt caataccat
tcaaatgtc ctaggtctat cagaaatag ggaaggtagt cctgttttat aataggaaaa
tgtatttctg tataagattt ctttgccttc attaaaaatg ggattcattt aaaaattaat
cttccctgt taggctgatt tcagattctc taggaatatc ggtgaagtaa ccagaagact

298	3928	Prostaglandin F2-alpha Receptor	NP_000950.1	MSMNSKQLV SPAAALLSNT TCQENRLSV FFSVIFMTVG ILSNSLAIAI LMKAYQRFRRQ P KSKASFLLA SGLVITDFEG HLINGAIAVF VYASDEWIR FDQSNVLCSE FGICMVFSGL CPLLLGSVMA IERCIGVTKP IFHSTKITSK HVKMMLSGVC LFAVFTALLP ILGHRDYKIQ ASRTWCIFYNT EDIKOWEDRF YLLLFSEFLG LALGVSLLCN AITGITLLRV KFSQQRHQG RSHHLEMVIO LLAIMCVSCI QWSPFLVTMA NIGINGNHSL ETCETTLFAL PMATWNQILD PMVYILLRKA VLKNLYKLAS QCCGVHVISL HIWELSSIKN SLKVAALISES PVAEKSAST cggcccgccc tggggaggcg cgcagcagag gctccgattc gggcaggtg agaggctgac A tttctctcgg tgcgtccagt ggagctctga gtttcgaatc ggtggcgcg gattccccgc ggcggcgcg tgggggcttc caggagatg cggagcccca gcgcggcggt gctgctgggg gcggccatcc tgcctagcgc ctctctctcc tgcagtggca ccatccaagg aaccaataga tccctctaaag gaagaagcct tattggttaag gttgatggca catccaccgt cactggaaaa ggagttacag ttgaacacagt cttttctgtg gatgagatctt ctgcatctgt cctcacttga aaactgacca tggctctcct tccaaattgtc tacacaattg tgtttgtggt gggtttgcca agtaacggca tggccctgtg ggtcttctt ttcggaacta agaagaagca cctgctgtg atttacatgg ccaatctggc cttggctgac ctctctctg tcatctggtt ccccttgaag attgcctatc acatactgc caacaactgg atttatgggg aagctctttg taatgtgctt attggctttt tctatggcaa catgtactgt tccattctct tcatgacctg cctcagtgtg cagaggtatt gggctacgtg gaaccccatg gggcactcca ggaagaaggc aaacattgcc attggcatct cctggcaat atggctgctg attctgtgtg tcaccatccc ttgtatgtc gtgaagcaga ccatcttcat tccctgcccgt aacatcacga cctgtcatga tgttttgctt gagcagctct tgggtggaga catgttcaat tacttctct ctctggccat tggggtcttt ctgttccccag ccttctcac agcctctgcc tatgtgctga tgatcagaat gctgcgatct tctgcatgg atgaacctc agagaagaaa aggaagaggg ccatcaact catgtcact gtcttgccca tgtactgat ctgcttcaat cctagtaaac ttctgcttgt ggtgcattat tttctgatta agagccaggg ccagagccat gtctatgccc tgtacattgt agccctctgc ctctctaccc ttaacagctg catcgacccc ttgtgtatt actttgtttc acatgatttc agggatcatg caaagaacgc tctcctttgc cgaagtgtcc gcactgtaaa gcagatgcaa gtatccctca cctcaagaa acactccagg aaatccagct ctactcttc aagttcaacc actgttaaga cctcctattg agttttccag gtcctcagat gggaattgca cagtaggatg tggaaacctgt ttaatgttat gaggacgtgt ctgttatttc ctaaatcaaaa aggtctcacc acataccacc g	Homo sapiens	
299	4051	Proteinase-Activated Receptor 2	NM_005242			Homo sapiens
300	4051	Proteinase-Activated Receptor 2	NP_005233.2	GAAILLAAASL SCSGTIQGTN RSSKGRSLIG KVDGTSHTVG KGVTVEVFS P MRSPSAWLL VDEFSASVLT GKLTTTFLPI VYTIVFVGL PSNGMALWVF LFRKKKHPA VIYMANLALA		Homo sapiens

Receptor 2	4052	Proteinase- Activated Receptor 3	NM_004101	<p>DLLSVIWFPL KIAHYHANN WIYGEALCNV LIGFFYGNMY CSILFMTCLS VQRYWVIVNP MGHSRRKANI AIGISLAIWL LILLVTIPLY VKQTFIPA LNITTCNDVL PEQLLVGMF NYFLSLAIGV FLFPAFLTAS AYVLMIRMLR SSAMDENSEK KKRRAIKLIV TVLAMYLICF TPSNLLLVVH YFLIKSQQS HVYALYIVAL CLSTLNSCID PFVYFVSHD FRDHAKNALL CRSVRTVKQM QVSLTSKKHS RKSSSYSSSS TTVKTSY</p> <p>ctgctgcga cggcacagga gagcaactt ctacagacag accaaggctt ccatttgctg A ctgacacatg gaactgaggt gaaatgtgct tccatgattt tacagatttc ataacgttta agagacggga ctcaggtcat gaaatgaaa gcccctcatct ttgcagctgc tggcctcctg ctctgttgc ccacttttg tcagagtggc atggaatg atacaacaa attctttga agagtcccc cacaacttac ccattaagac ctctgtgga gctccccaa gctccccaa gtgccccgaa ttttctgctt tggaaggctg gacagagcc acgattactg taaaaattaa gtgccccgaa gaaagtgtct cacatctcca tgtgaaaaat gctaccatgg ggtacctgac cagctcctta agtactaaac tgatacctgc catctacctc ctggtgttgg tagttggtgt cccggccaat gctgtgaccc tgtggtgct tttcttcagg accagatcca tctgtaccac tgtattctac accaaactgg ccattgcaga tttctttttt tgtgttacct tgccttttaa gatagcttat catctcaatg ggaacaactg ggtatttggg gaggtcctgt gccggggccac cacagtcac ttctatggga acatgtactg ctccattctg ctcttgctt gcacagcat caaccgtac ctggccatcg tccatccttt cactacccg ggccgtgcca agcacaccta tgccttgga acatgtggac tgggtgtggc aacagtttct ttatatatgc tgccattttt catactgaag caggaatatt atctgttca gccagacatc accactgctc atgatgttca caacacttgc gagtcctcat ctcccttcca actctattac ttcactcctt tggcattttt tggattctta attccatttg tgcttatcat ctactgctat gcagccatca tccggacact taatgcatac gatcatagat ggtgtgtgta tgttaaggcg agtctcctca tccttgtgat tttaccatt tgcttggctc caagcaatat tatcttatt attcaccatg ctaactacta ctacaacaa actgatggct tatattttat atatctcata gctttgtgcc tgggtagtct taatagtgtc ttagatccat tcctttattt tctcatgtca aaaaaccagaa atcactccac tgcttacctt acaaaatagt gaaatgatct tagagaacaa ggacagccat cacagagaac gtctgttttc aagaacaca taagcatagt gcaaggagct ccatttccga gctcctaaga aatatgcttc aaaggtcaaa cattacaaa gcttagtag tttgtttgtt tgtttttgag actgagtctc actttatcac ccagactggc gtgagtgcc actatcttgg ctcattgcaa cctctgcctc ccaggtcagc ctcccaagta gctgggatta caccaccatg cccagctact aaaaactt gtatttttag tagagacggg gtttcacct gttgaccagg ctggtcttga actcctgacc tcaagtgatc ttccggcctc agctcccaa agtgcctgat tacaggcgtg agccactgag ccagccagca ttagtaattt ttaaaaacac ttatcagta ttttaaaat gttaatgcag gagaaaagat atcaaacctc tatggaaaat gacatttcca tttgccttat tgctacttca agctctttta atcaccatct tccctatttc</p>	Homo sapiens
Receptor 3	4052	Proteinase- Activated Receptor 3	NP_004092.1	<p>MKALIFAAAG LLLLPTFCQ SGMENDTNL AKPTLPKTF RGAPPNSFEE PFPSALEGWT P GATITVKIC PEESASHLV KNATMGYLTSLSTKLIPAI YLLFVVGVP ANAVTLWMLF FRTRSICTV FYTNLAIDF LFCVTLPEKI AYHLNGNNW FGEVLCRAFT VIFYGNMYCS ILLACISIN RYLAIVHPFT YRGLPKHTYA LVTCGLVWAT VFYMLPFFI LKQEYLVQVP DITTCNDVHN TCESSSPFQL YYFISLAFFG FLIPFVLIY CYAAIIRTLN AYDRWLWYV</p>	Homo sapiens

303	4090	G Protein- Coupled Receptor GPR17	NM_005291	KASLLILVIF TICFAPSNI I LIIHANYYY NNTDGLYFIY LIALCLGSLN SCLDPFLYFL MSKTRNHSTA YLTK	ccgacaccca cggcgaggaga tcacctgctg cccgcagac ccctgtccct tcctcccgga A ccagcagcta gaggatgtcc aaacggagtt ggtgggctgg atccagaaag cccccaagag agatgctgaa actctcaggc tctgactcca gcaaaagcat gaatggcctt gaagtggctc ccccaggtct gatcaccaac ttctccctgg ccaacggaga ccaatgtggc caggagacgc cactggagaa catgctgttc gctccttctt accttctgga ttttatctcg gcttttagttg gcaataccct ggctctgtgg cttttcatcc gagacacaa gtccgggacc cgggccaacg tgttctctgat gcattgtggc gtggcgcact tgtctgctgt gctggctctg cccaccgcgc tgtgtctacca cttctctggg aaccactggc catttggga aatcgatgc cgtctcaccg gcttctctt ctacctcaac atgtacgcca gcattctactt cctcacctgc atcagcgccg accgtttcct ggccattgtg caccgggtca agtccctcaa gctccgcagg cccctctacg cacacctggc cgtgtccctc ctgtgggtgg tgggtggctgt ggcctaggcc ccgctgctgg tgagcccaca gaccgtgcag accaaccaca cgggtgctgt cctgcagctg tacccgggaga aggctcccca ccatgcctg gtgtccctgg cagtggtcctt caccttcccc ttcataacca cggtaacctg ctacctgctg atcatccgca gcttgcggca gggcctgctg gtggagaagc gctcaagac caaggcagtg cgcagatgc ccatagtgtt ggcattcttc ctggtctgct tcgtgcccta ccacgtcaac cgtccgtctt acgtgctgca ctaccgcagc catggggcct cctgcgccac ccagcgcatc ctggccctgg caaacgcgat cacctctgc ctcaccagcc tcaacggggc actcgacccc atcatgtatt tcttctggc tgagaagtgc cgcacgccc tgtgcaactt gctctgtggc aaaaggctca agggcccgcc cccagcttc gaaggaaaa ccaacgagag ctgctgtagt gccaagtcag agctgtgagc ggggggccc gtccaggccg agcgcagact gtttaggact cagcagaccc agcaagaggc atctgcccct tcccagcca cctccccagc aagcaacctg aaatctcagc agatgccac catttctcta gatcgccctag tctcaaccca taaaaaggaa gaactgacaa aggggatcca tcggccaccc ctctgcaggg gcttgtgatg gctacaatgg ctccatagaca ctcaacgact tcatctgttg cagggagaga ggaggccgga agaacaacc ctgaacaatg gaggccttc ttcccgcta ggtcccagc ctccttcccg ctacagaatc gctcatcggc gaggctcagc agaaagacc tgaaggcagg ctgcaaatga cccagaagag ggacctggga gtcctgtgg ggacggggag ggagtctcaa tactcctttg cagcgcaagg tactctgagt cccctctgta gtgctctgc cagacacaca ctgctgtagt tgaagagaca caggccacac atttcaggct ggttgccagc ggacgtcagc actcacggcc tgcggggact cagcacagct ctggattctg gatctctct gctgtaaccc cacgcacaag cctgcaacc ccagagctct ttgacaggct ccaggccctc ccagtccctgg acaagcatgt gcagtcacgg gagctcagct caggccaggg ctgggctgtg cactgcctc ccactgaccc agaccactt cctccagaga ggcctctctc cgcctgagct atttcccttg ctagtgtgca gatatttccc taacatgtcc tttttgtat ttgtttgtac ggaccataaa tataactgta gctttaagac taaaaaaaa	Homo sapiens
304	4090	G Protein- Coupled Receptor GPR17	NP_005282.1	MSKRSWAGS RKPPREMLKL SGSDSSQSMN GLEVAAPPGLI TNFSLATAEQ CGQETPLENM P LEASFYLLDF ILALVGNFLA LWLFIRDHKS GTPANVFLMH LAVADLSCVL VLPTRLVYHF SGNHWPFGEI ACRLTGFLFY LNMYSIYFL TCISADRELA IVHPVKSLKL RRPPLYAHLAC AFLWVVVAVA MAPLLVSPQT VQTNHTVVCL QLYREKASHH ALVSLAVFT PFFITTVTCY	Homo sapiens	

305	4254	Rhodopsin	NM_000539	<p>LLIIRSLRQG LRVEKRLKTK AVRMIAlVLA IFLVCFVPYH VNRSVYVLHY RSHGASCATQ RILALANRIT SCLTSLNGAL DPIMYFFVAE KFRHALCNLL CGKRLKGPPP SFEGKTNESS LSAKSEL</p> <p>agagtcaccc agctggagcc ctgagtggtc gagctcaggc cttcgacgca ttcttgggtg A ggagcagcca cgggtcagcc acaaggcca cagccatgaa tggcacagaa ggcctaact tctacgtgcc ctttccaat gcgacgggtg tggtagcag ccccttcag taccacagt actacatggc tgagccatgg cagttctcca tctggcgccg ctacatgttt tctgcatcg tgctgggctt ccccatcaac ttcttcacgc tctacgtcac cgtccagcac aagaagctgc gcagcctct caactacatc ctgctcaacc tagccgtggc tgacctctc atggtcctag gtggcttcac cagcacctc tacacctctc tgcattgata cttcgtcttc gggccacag gatgcaattt ggagggttc ttggccacc ttggcggtga aattgccctg tggccttgg tggtcctggc catcgagcgg tacgtggtgg tgtgaagcc catgagcaac ttccgcttcg gggagaacca tgcctcatg ggcgttgctt tcacctgggt catggcgctg cctgcgcgg caccctact cgcgggtgg tccagggtaca tccccagggt cctgcagtc tctgtgtgaa tcgactacta cagctcgaag cggaggtca acaacgagtc tttgtctac tacatgttcg tggctcactt caccatcccc atgattatca tctttttctg ctatggcgag ctgcttctca ccgtcaaggga ggcgctggc cagcagcagg agtcagccac cacacagaa gacagaaagg aggtcacccg catggtcatc atcatggtca tgccttctc gatctgctg gtgcctacg ccagcgtggc attctacatc ttaccacc accgtgtcca aggtgtccc atcttcata ccatccagc gttctttggc aagagcgccg ccattctaca cctgtctac tatatcata tgaacaagca gtcccggaac tgcattgctca ccacctctg ctgcggcagg aacctctgg gtgacgatga ggcctctgct accgtgtcca agcggagag gagccaggtg gccccggcct aagacctgcc taggactctg tggccgacta taggcgtct ccatcccta cacttcccc cagccacagc catccacca ggagcagcgc ctgtgcagaa tgaacgaagt cacataggct ccttaatttt tttttttttt ttaagaaata attaatgagg ctctcactc acctggaca gcctgagaag ggacatccac caagacctac tgatctggag tcccacgtc ccaaggcca gcgggatgtg tgccctcctt cctcccaact catctttcag gaacacgagg attcttgcct tctggaaaag tgtccagct tagggataag tgtctagcac agaattgggc acacagtagg tgcttaataa atgctggatg gatgcaggaa ggaatggagg aatgaatgg aagggagaa atatctatcc tctcagacc tgcagcagc agcaactcat acttggctaa tgatatggag cagttgtttt tccctcctg ggcctcactt tcttctcta taaaatgaa atcccagatc cctggtcctg ccgacacgca gctactgaga agaccaaag aggtgtgtgt gtgtctatgt gtgtgtttca gcactttgta aatagcaaga agctgtacag attctagtta atgttgtgaa taacatcaat taatgtaact agttaattac tatgattatc acctcctgat agtgaacatt ttgagattgg gcattcagat gatgggtttt caccacaact tggggcaggt ttttaaaat tagctaggca tcaaggccag accagggtg ggggttgggc tgtaggcagg gacagtcaca ggaatgcagg atgcagtcat cagacctgaa aaaaacac tgggggagg gacgggtgaa ggcacaagtc ccaatgagg tgagattggg cctgggggtct caccctagt gtggggcccc aggtccccgt cctccccctt ccaatgtggc ctatggagag acaggccttt ctctcagcct ctggaagcca cctgctcttt tgctctagca cctgggtccc agcatctaga gcatggagcc tctagaagcc atgctcacc gccacattt aattaacagc tgagtccctg atgtcatcct</p>	Homo sapiens
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306	4254	Rhodopsin	NP_000530.1	<p>tactcgaaga gcttagaagc aaagagtggtg aaattccact gggccctacct tccttggggg</p> <p>tggtcatggg cccaggtttc cagttccctt tgccagacaa gccatcttc agcagttgct</p> <p>agtcattctt ccattctgga gaattgctc caaaaagctg gccacatctc tgagggtgca</p> <p>gaattaagct gctctcagtaa ctgctccccc ttctccatat aagcaagacc agaagctcta</p> <p>gctttaccca gctctgctg gagactaagg caaatggggc cattaaaagc tcagctccta</p> <p>tggtggtatt aacggtggtg ggtttgtgtg ctttcacact ctatcacag gatagattga</p> <p>aactgccagc ttccactga tccctgaccc tgggatggct ggattagaca atgagcagag</p> <p>ccaagcagca cagagtcctc tggggctaga ggtggagag gactctctgg gaatgggaaa</p> <p>aacccca</p>	Homo sapiens
307	4284	Retinal G Protein-Coupled Receptor RPE	NM_002921	<p>agagacagct gggccactgg cagtgagggg agtgagagat ggcagagacc agtgcctgc A</p> <p>ccactggctt cggggagctc gagtgctgg ctgtgggagat ggtgctactg gtggaagctc</p> <p>tctccggtct cagcctcaat accctgacca tcttctctt ctgcaagacc ccgagctgc</p> <p>ggactccctg ccactactg gtgctgagct tggctcttgc ggacagtggtg atcagcctga</p> <p>atgcccctgt tgcagccaca tccagcctc tccggcgctg gccctacggc tcggacggct</p> <p>gcagagctca cggcttcag gctttgtga cagcgttgc cagcatctgc agcagtgcag</p> <p>ccatgcgat ggggcgttat caccactact gcacccgtg cagctggcc tggaaactcag</p> <p>ccgtctctt ggtgctctc tatgagccac tggggacatg ctgcacctg gactactcca</p> <p>tgggttgggg tcaatatgac tatgagccac tggggacatg ctgcacctg gactactcca</p> <p>aggggacag aaacttcacc agcttctct taccatgtc ctcttcaac ttcgcatgc</p> <p>ccctctcat cagatcact tctacagtc tcatggagca gaaactggg aagagtggc</p> <p>atctccaggt aaacacact ctgccagcaa ggacgtgct gctcggtgg gggccctatg</p> <p>ccatcctgta tctatacga gtcactgcag acgtgacttc catctcccc aaactgcaga</p> <p>tggtgccgc cctcattgcc aaatgggtg ccacgatcaa tgccatcaac tatgccctgg</p> <p>gcaatgagat ggtctgcagg ggaatctggc agtgccttc accgcagaag agggagaag</p> <p>accgaaccaa gtgagcctgc caccctggag tgagcccccag gccaggaggc tgttccagga</p> <p>gtcctgccc cagcctcgg tggccaaagc cagacactca cccacttcc ccagtggccc</p> <p>cgtggatcct ggtcctaggc tggacacagg attcagaaa acaccaggct gcacagaaag</p> <p>agccagatgg acctgagtgt cggtcacagc cccctacact caagctgag aggcctcagg</p> <p>aaagtcattc ctttttaaaa ataataata atgtaagggg gtacagtga gttttgttac</p> <p>atggatagat tgcctagtgg tgaagtctgg gcttttagtg taaccatcac ctaataata</p> <p>tacgttgtac ccattaaagt atttctcat cctcaccccc tcccacctg tcaccttct</p> <p>gagtcctcaa tgtctattat tccacactcc atgtccactg gtacacatta tttagctccc</p> <p>acttacaagt gagaacatgt ggtatttgac ttcca</p>	Homo sapiens
308	4284	Retinal G Protein-	NP_002912.1	<p>MAETSALPTG FGELEVLAVG MVLLVEALSG LSLNLTIFS FCKTPELRTP CHLLVLSLAL P</p> <p>ADSGISLNAL VAATSSLLRR WPGYSDGCQA HGFQGFVTAL ASICSSAAIA WGRYHHYCTR</p>	Homo sapiens

309	4321	Coupled Receptor RPE	Secretin Receptor	NM_002980	<p>SQLAWN SAVS LVLFWLSSA FWAALPLL GW GHYDVEPLGT CCTLDYSKGD RNFTSFLFTM SFNFAMP LF ITITSYSIME QKLGKSGHLQ VNTTLPARTL LLGWGPYAIL YLYAVIADVT SISPKIQMP ALIAKMPPTI NAINYALGNE MVRGRIWQCL SPQKREKDR T K acgagggccg cggagcccg ggaccctgcg cggggcgctg agctcccgag cgggcagagg A gcacgggcag cggagcgtcg gggcgccctc ggggaacgtg cgggcacat cgcgtccac ctgtcgccg cgtgcagca gctactactg cgggtgctgc tgcctgcgc cgcgcactcg actggagccc ttcccgact atgtgactg ctacaagtgc tgtgggaaga caaagaccag tgcctgcagg aactctccag agagcagaca ggagacctgg gcacggagca gccagtggca ggtgtgagg ggtgtggga caacataagc tgcctgcctt ctctgtgccc gggccggatg gtggaggtgg aatgcccgag attctcccg atgtcacca gcagaaatgg ttccctgttc cgaactgca cacagatgg ctggtcagaa acctcccca ggcctaattt ggcctgtggc gttaatgtga acgactcttc caacgagaag cggcactctt acctgtgaa gctgaaagtc atgtacaccg tgggtacag ctctccctg gtcatgtccc tggtcgccc tggcatcctc tgtctttcc ggagctcca ctgcactgc aactacatcc acatgcact gtctgtgtcc ttcatccttc gtgcctgtc caactcatc aaggacgcg tgcctcttc ctcatgat gtcaactact gcatccgca caggcgggc tgcaagctgg tcatgtgtgt gtccagatc tgcatcatgg ccaactact ctggtgtgtg gtggaaggcc ttacactca cacactctc gccatctctt tcttctctga aagaaagtac ctccaggat ttgtggcatt cggatggggt tctccagcca ttttgttgc tttgtggct atgtccagac acttcttga agatgtgtgg tgtggggaca tcaatggcaa cgtccatc tgggtgatca ttcgtgttcc tgtgatcctc tccatcctga ttaatttcat cctttcata aacattctaa gaatcctgat gagaaaactt agaacccaag aaacaagagg aatgaagtc agccattata agcgctgtgc caggtccact ctctgtgtga tccccctt ttggatccac tacatgtct tgcctcttc cccagaggac gctatggaga tccagtggt tttgaaacta gcccttggtt cattccaggg actggtgtgtg gccgtctct actgctctt caatggggag gtgcagctgg aggttcagaa gaagtggcag caatggcacc tccgtgagtt cccactgac cccgtggct ccttcagcaa cagcaccaag gccagccact tggagcagag ccagggcacc tgcaggacca gcatcatctg agaggctgga gcagggtcac ccacggacag agaccaagag aggtcctcg aaggctggc actgctgtgg gacagccagt ctccccagca gacacctgt gtctccttc agctgaagat gccctcccc agcccttga ctctccgaa gggatgtgag gcatgtggg gcaggacaa ggcctggat ttggttcgtt tgcctctgt ggaagagaag ttcagggggt ccagaaaagg acagggaat aaatggtgcc tgggatgaga ttc</p>	Homo sapiens
310	4321	Secretin Receptor		NP_002971.1	<p>MRPHSPPLQ QLLPLVLAC AAHSTGALPR LCDVLQVWE EQDQCLQELS REQTGDLGTE P QVPGCEGMW DNISCEWSSV PGRMVEVECP RFLRMLTNRN GSLFRNCTQD GWSEFPRPN LACGVNVDN SNEKRHSYLL KLKVMYTVGY SSSLVMLVA LGILCAFRRL HCTRNYIHMH LFVSFIIRAL SNFIKDAVLF SSDDVTYCDP HRAGCKLVMV LFQYCIANY SWLLVEGLYL HTLLAISFFS ERKYLQGEVA FGWGSPIFV ALMAIARHEL EDVGCWDINA NASIWWIIRG PVILSILINF ILFINILRIL MRKLRTQETR GNEVSHYKRL ARSTLLLIPL FGIHYIVFAF SPEDAMEIQL FFELALGSFQ GLVAVLYCF LNGEVQLEVQ KKWQQWHLRE FPLHPVASFS NSTKASHLEQ SQGTCRTSII</p>	Homo sapiens

311	4480	Somatostatin NM_001049 Receptor Type 1	atgttcccc atggcaccgc ctcctctctt tcctctcttc ctageccacg cccgggcagc A tgcgggaag gcggcgagcag caggggcccc ggggcggcgc ctgcggacgg catggagag ccaggcgcaa atgcgtccca gaacgggacc ttgagcagg gccaggcag cggcatcctg atctctttca tctactccgt ggtgtgctg gtggggtgt gtgggaactc tatgtgtcatc tacgtgatcc tgcgtatgc caagatgaag acggcaccac acatctacat cctaaatctg gccattgctg atgagctgct catgctcagc gtgcctctcc tagtcacctc cacgttgggtg cgccactggc ccttcggtgc gctgctctgc cgcctcgtgc tcagcgtgga cgcgggtcaac atgttcacca gcattactg tctgactgtg ctacagctgg accgctacgt ggccgtgggtg catcccatca aggcggcccc ctaccgcggg cccaccgtgg ccaaggtagt aaacctgggc gtgtgggtgc tatcgtgct cgtcactctg cccatcgtgg tcttctctcg caccgcggcc aacaggacg gcacggtggc ttgcaacatg ctcatgccag agcccgctca acgctggctg gtgggcttcg tgtgtacac atttctcatg ggcttctgc tggcctggg ggctatctgc ctgtgctacg tgctcatcat tgctaagatg cgcattggtg cctcaaggc cggctggcag cagcgaagc gctcggagcg caagatcacc ttaatggtga tgatggtgtt gatggtgttt gtcatctgct gtagtccctt ctacgtgtg cagctgggtta acgtgtttgc tgagcaggac gacgccacgg tgagtcagct gtcggtcatc ctggtgtatg ccaacagctg cgccaacccc atcctctatg gcttctctc agacaacttc aagcgtctt tccaacgcat cctatgcctc agctggatgg acaacggcg ggaggagcg gttgactatt agccacccg gctcaagagc cgtgcttaca gtgtggaaga cttccaaact gagaacctgg agtcggcg cgtcttccgt aatggacct gcactgcgg gatacagcg cctga	Homo sapiens
312	4480	Somatostatin NP_001040.1 Receptor Type 1	ISFIYSVVCL VGLCGSNVI YVILRYAKMK TATNIYILNL AIADELLMLS VPFLVTSTLL P RHWPFGALLC RLVLSDAVN MFTSIYCLTV LSVDRYAVV HPIKAARYRR PTVAKVNLG VWVLSLLVIL PIVFSRTAA NSDGTVACNM LMPEPAQRWL VGFVLYTFLM GFLLPVGAIC LCYVLLIAKM RMVALKAGWQ QRKRSEKIT LMVMVMVMVF VICWMPFYV QLVNVFAEQD DATVSQLSVI LGYANSCANP ILYGFLSDNF KRSFQRILCL SWMDNAAEEP VDYATALKS RAYSVEDFQP ENLESGVFR NGTCTSRIT L	Homo sapiens
313	4481	Somatostatin NM_001050 Receptor Type 2	atggacatgg cggatgagcc actcaatgga agccacacat ggctatccat tccatttgac A ctcaatggct ctgtggtgc accaacacc ttaagccaga cagagccgta ctatgacctg acaagcaatg cagtcctcac attcatctat ttgtgtgtct gcatcattg gttgtgtggc aacacacttg tcatttatgt cactctcgc tatgccaaga tgaagacct caccacactt tacatctca acctggccat cgcagatgag ctcttcatgc tgggtctgccc tttcttggct atgcagggtg ctctggtcca ctggccctt ggcaaggcca ttgcccgggt ggtcatgact tggtatggca tcaatcagtt caccagcatc tctgcctga cagtcatgag catcgaccga tacctggctg tggccacc catcaagtcg gccaaagtga ggagacccc gacggccaaag atgatcaca tggctgtg gggagtctct ctgctggtca tcttgcccat catgatatat gctgggctcc ggagcaacca gtgggggaga agcagctgca ccatcaact gccaggtgaa tctggggctt ggtacacagg gttcatcatc tacacttca tctgggggt cctgggtacc ctcaccatca tctgtctttg ctacctgttc attatcatca aggtgaagtc ccttgggaatc cgagtgggct cctctaagag gaagaagtct gagaagaagg tcaccggaat ggtgtccatc gtgggtggctg tcttcatctt ctgctggctt ccttctaca tattcaact tcttccgtc	Homo sapiens

314	4481	Somatostatin NP_001041.1 Receptor Type 2	tccatggcca tcagccccc ccagccctt aaagcatgt ttgactttgt ggtggtcctc acctatgcta acagtgtgc caacctatc ctatagcct tcttgtctga caacttcaag aagagcttcc agaattgctt ctgcttggtc aaggtgagcg gcacagatga tggggagcgg agtacagta agcaggacaa atcccggtg aatgagacca cggagaccca gaggaccctc ctcaatggag acctcaaac cagtatctga MDMADEPLNG SHTWLSIPFD LINGSVSTNT SNQTEPYDYL TSNALTFIY FVCIIGJCG P NTLIVYILR YAKMTITNI YLNLAIADLF LFMGLPFLA MQVALVHWPF GKAIQVVMVT sapiens VDGINQFTSI FCLTMSIDR YLAVVHIKS AKRRRPRTAK MITMAVMGVS LLVILPIMY AGLSNQWGR SSTINWPGF SGAWYTGFI YTFILGLVP LTIICLCYLF IIRKXSSGI RVGSSKRKKS EKKVTRMVS VVAVFIECWL PFYIFNVSSV SMAISPTPAL KGMFDFVVVL TYANSCANPI LYAFLSDNEK KSFQNVLCV KVSGETDDGER SDSKQDKSRL NETTETQRTL LNGDLQTSI	Homo sapiens
315	4482	Somatostatin NM_001051 Receptor Type 3	atggacatgc ttcatccatc atcgggtgtcc acgacctcag aacctgagaa tgcctcctcg A gcttggtccc cagatgccac cctgggcaac gtgtcggcg gcttggtgctg ggcaggctg gctgtcagtg cgttctgat ccccttggtc tacctggtg tgtcgtggtt ggcctgctg ggttaactcg tggatcatc tgtggtcctg cggcacacgg ccagccctc agtaccacac gttacatcc tcaacctggc gctggccgac gagctctca tgtgggggtt gcccttctg gccgcccaga acgacctgt ctaactggcc ttgggtccc tcatgtgctg cctggtcatg gctgtggtg gcatcaacca gtccaccagc atattctgcc tgactgtcat gagctggac cgctacctgg ccgtggtaca tcccaccgc tggcccgctt cggcacacgc tccggtggcc cgacgggtca gcggtggtg gtgggtggcc tcagcgtgg tgggtgctgc cgtggtggtc ttctcgggag tgcgccgctg catgagcacc tggcacatgc agtggccga gccggcggtg gcctggcgag ccggttctat catctacac gccgactgg gcttctcgg gccgtgctg gtcatctgcc tctgtacct gctcatgtg gtgaaggtgc gctcagctgg gcgcccgtg tgggcacct cgtgccagc gcgcccgc tccgaacga ggtcacgcg catggtggtg gccgtggtg cgtctctgt gctctgctg atgcccctt acgtgctcaa catcgtcaac gtggtgtgcc cactgccga ggagcctgcc tctttgggc tctacttctt ggtggtggtg ctgcccctatg ccaacagctg tgccaaccc atctttatg gcttctctc ctaccgttc aagcagggtt tccgcagggt cctgctgctg cctcccgcg gtgtgcgcag ccaggagccc actgtggggc cccgggagaa gactgagag gagtatgag agggagga tggggagga agcaggaggg ggggcaagg gaggagatg aacggccggg tcagccagat cagcagcct ggcacagcg ggcaggagcg gccgccagc agagtggca gcaaggagca gcagtccta ccccaaagag cttccactgg ggagaagtc agcacatgc gcatcagcta cctgtag MDMLHPSSVS TTSEPNASS AWPFDATIGN VSAGSPAGL AVSGVLIPLV YLAVCVVGLL P GNSLVTVVL IHTASPSVTN VYILNLALAD EFLMGLPFL AQNALSTWP FGSIMCRLVM AVDGINQFTS RFCLTVMSVD RYLAVVHETR SARWRTAPVA RTVSAVWVA SAVVLPVVV FSGVPRGMS CHMQWPEPAA AWRAGFIYT AALGFFGLL VICLCYLLIV VKVRSAGRRV WAPSCQRRR SERRVTRMV AVVALFVLCW MPFYLVNIN VVCPLEPEA FFLYFLVVA LPYANSCANP ILYGFLSYRF KQGFRRVLLR PSRRVRSQEP TVGPPEKTEE EDEEEEDGE SREGGKGEM NGRVSQITQP GTSGQERPPS RVASKEQLL PQEASTGKES STMRIISYL	Homo sapiens
316	4482	Somatostatin NP_001042.1 Receptor Type 3		Homo sapiens

317	4483	Somatostatin Receptor Type 4	NM_001052	atgagcgccc cctcgacgt gccccggg ggcgaggaag ggctggggac ggctggggc A tctgagcca atgcagtag cgctcggcg gagcgagg agcggtggc gggtccggg gacgcgggg cggtgggcat ggctctatc cagtgcatt acgctgggt gtgcctggg gggtgggtg gcaagccct ggctatctt gtgaccttc gctacgcca gatgaagag gctaccacca tctactgct caactggcc gtagegacg agctcttcat gctgagcgtg ccttctgtg cctgtcgcc cgctcgccg cactggccct tcggctccgt gctgtccgc gggtgctca gctcgacgg cctcaacatg ttaccacgg tcttctgtc caccgtgctc agcgtggacc gctacgtgg cggtgggac cctctggcg cggtgacctt cggcgggcc agcgtggcca agctcatcaa cctgggctg tggctggcat cctgttgggt cactctccc atgcctatct tgcagacac cagaccggct cggtggccg agcgtggc ctgcaacctg cagtggccac acccgccgtg gtgcgagtc ttctgtgtt acatttctt gctgggcttc ctgtgcccc tgctggccat tggcctgtg tacctgtca tcgtgggcaa gatgcggcc gtgcccctgc cgctgggtg gcagcggcg agcgtggcg agaagaaat caccaggctg gtgctgatg tctgtgtctg ctttggctc ttgtggtg agcgtggc ggtcagctg ctgaacctg tctgtgacc ccttgatgc accgtcaac cgtgtccct tatcctcagc tatgcaaca gctgcgcaa cctattctc tatggcttc tctccgcaa ctcccgcca tcttccagc ggttctctg cctgcgtgc tgctcctgg aggtgctgg aggtgctgag gaggagccc tggactacta tggcactgct ctcaagagca aggtggggc aggtgcatg tgccccccac taaaatgcca gcaggaaacc ctgcaaccag aaccggcg caagcgcat ccctccacca ggaaccac ctttga	Homo sapiens
318	4483	Somatostatin Receptor Type 4	NP_001043.1	MSAPSLPPG GEEGLTAMP SAANASAPA EAEAVAGPG DARAAGMVAI QCIYALVCLV P GLVGNALVIF VILRYAMKT ATTIIYLNLIA VADEFMLSV PFVASSAALR HWPFGSVLCR AVLSVDGLNM FTSVCLTVL SVDRYAVVH FLRAATYRRP SVAKLINLGW WLASLLVTLTLP IAIFADTRPA RGGQAVACNL QWPHPAWSAV FVYTFLLGF LLPVLAIGLC YLLIVGKMRA VALRAGWQQR RRSEKIKTRL VLMVVVFEVL CWMFPYVVQL LNLVVTSLDA TVNHVSLILS YANSCANPIL YGFLSDNFRF SFQRLVLCR CLLEGAGGAE EEPLDYAYATA LKSKGGAGCM CPPLKQOEALQPEPGRKRI PLTRTTTF	Homo sapiens
319	4484	Somatostatin Receptor Type 5	NM_001053	atggagcccc tgttccagc ctccacgcc agctggaacg cctctctccc gggggctgccc A tctggaggcg gtgacacacg gacgtggtg gggccggcg cctcggcagg ggcggggcg gtgctggtgc cgtgctgta cctgctgta cgtgctggtg tgtgcgccg gctggggcg gaacacgctg gtcatctacg tgggtgtggtg cttcgccaa atgaagacgg tcaccaaat ctacattctc aacctggcag tggccgacgt cctgtacatg ctggggctg ctttctctg caccagaaac ggcgctcct tctggccctt cggccccgc cgtgcccgc tggctcatgac gctggacggc gtcaaccagt tcaccagtgt cttctgctg acagtcatga gctgggaccg ctacctggca gtggtgacc cgtgagtc gcccgcgtg cgcccgccg gtgtggccaa gctggcagc ggcgggcct ggtctctgc tctgtgcatg tctgtgccc tcctgggtgtt cgggacgtg caggagggcg gtacctgcaa cgccagctgg ccggagccc tggggctgtg gggcgccgc ttcatcatct acacggccgt gctgggttc ttgcgcgcg tgtgtgtcat ctgctgtg tacctgtca tctgtgtgaa ggtgagggcg gcggcgctg gcgtgggctg cgtgcggcg cgctcgagc ggaaggtgac gcgcatggtg ttggtggtg ttgctggtt tgcgggatg tggctgccc tcttaccgt caacatgctc aacctggcg tggcgctgccc ccaggagccc	Homo sapiens

320	4484	Somatostatin NP_001044.1 Receptor Type 5	MEPLFPASTP SWNASPGAA SGGDNRTLV GPAPSAGARA VLVPVLYLLV CAAGLGNTL P VIYVILRFK MKTWNIIYL NLAVADVLYM LGLPFLATQN AAEFWPFQPV LCRLVMTLDG VNQFTSVFCL TVMSVDRYLA VVHPLSSARW RRPVRKILAS AAANWLSLCM SLPLLVEADV QEGGTGNASW PEPVGLWGA VFIYTAVLGF FAPLLVTLCL YLLIVVKVRA AGVRVGCVRR RSERKVTIRMV LVVVLVFGC WLFFFTVNIV NLAVLPQEP ASAGLYFFV ILSYANSCAN PVLVGLSDN FRQSFQKVLIC LRKSGAKDA DATEPRPDRI RQQQEATPPA HRAAANGLMQ TSKL	Homo sapiens
321	4552	Tachykinin Receptor 1	aattcagagc caccgcgggc aggcggggcag tgcattccaga agcgtttata ttctgagcgc A cagttcagct ttcaaaaaga gtgctgccc taaaaagcct tccaccctcc tgtctgcttt agaagagccc tgagcccccag gcgccagcca caggactctg ctgcagaggg gggttgtgta cagatagtag gctttacgccc tagcttcgaa atggataacg tccctccggt ggactcagac ctctccccc aaatctccac taacacctcg gaacccaatc agttcgtgca accagcctgg caaatgttcc ttggggcagc tgcctacacg gtcatctgtg tgacctctgt ggtgggcaac gtgtagtga tgggtagcat cttagccac aaagaatga ggacagtgc gaactatctt ctgtgaacc tggccttcgc ggagcctcc atggctgcat tcaatacagt ggtgaacttc acctatgctg tccacaacga atggtactac ggcctgttct actgcaagt ccacaacttc ttcccatcg ccgctgtctt cgccagtatc tactccatga cggctgtggc ctttgatagg tacatggcca tcatacatc cctccagccc cggctgtcag ccacagccac caaagtgttc atctgtgtca tctgggtcct ggctctctg ctggccttcc ccagggcta ctactcaacc acagagacca tgcccagcag agtcgtgtgc atgacgaat ggccagagca tccgaacaag attatgaga aagtgtacca catctgtgtg actgtgtga tctacttct cccctgctg gtgattggct atgcatacac cgtagtggga atcacactat gggccagtga gatccccggg gactcctctg accgtaccca cgagcaagtc tctgccaaagc gcaaggtggt caaaatgatg attgtcgtgg tgtgcacctt cgccatctgc tggctgcct tccacatctt ctctcctctg ccctacatca accagatct ctacctgaag agtttatcc agcaggtcta cctggccatc atgtggctgg ccattagctc caccatgtac aacccatca tctactgtg cctcaatgac aggttccgtc tgggcttcaa gcatgccttc cgtgtctgccc ccttcateag cgccggcgac tatgaggggc tggaaatgaa atccaccgg tatctccaga cccagggcag tgtgtacaaa gtcagccgccc tggagaccac catctccaca gtggtggggg cccacgagga ggagccagag gacggcccca aggccacacc ctgctccctg gactgacct ccaactgctc ttcacgaagt gactccaaga ccatgacaga gagcttcagc ttctcctcca atgtgcttc ctaggccaca gggcttttgg caggtgcagc cccactgcc tttagacctg cctccctcat gcatggaaat tcccttcac tggaaaccac agaaacacc tcacactggg acttgcaaaa aggttcagta tgggttaggg aaacattcc atccttgagt caaaaaatct caattcttcc ctatctttgc caccctcatg ctgtgtgact caaaccaaat cactgaactt tgctgagcct gtaaaataaa aggctcgacc agcttttct caagagccca atgcattcca ttcttggag tgactttggc	Homo sapiens

322	4552	Tachykinin Receptor 1	NP_001049.1	tgcatgcgag tgctcatttc aggatg MDNVLVPVDS LSPNISTNTS EPNQFQGPAM KRMRTVTNYF LVNLAEAEAS MAAFNTVNF YSMTAVAFDR YMAIIHPLQP RLSATATKV MIEWPEHPNK IYEKVYHICV TLIYFLPLL SAKRKVVRNM IVVCTFAIC WLPFHIFLL NP1IYCCIND RFLGFKHAF RCCPFISAGD VGAHEEEPE DGPKATPSSL DLTSNCSSRS FSSNVLS	QIVLWAAAYT VIVVTSVVG N VVMMWIIIAH P TYAVHNEWY GLFYCKFHN F FPIAAVFASI ICVIWVLLL LAFPOGYIST TETMPSRVVC PYINPDLYK KFIQVYLA I MWLAMSSTMY YEGLEMKSTR YLQTQGSVYK VSRLETTIST	Homo sapiens
323	4687	Thrombin Receptor	NM_001992	ggcggggggc gcacagagcc agaggggctt gcgagcggcg gctgagggac cgcggggagg A ggcgcccgag cggctccagc gcagagactc tcactgcagc ccggaggccc cttctcgcct ccgcgcgcgc gaccgcgcgc ccagtcgcgc accctgatct taccctggcg caccctggc tctgcctgcc gctgcgcgag ggtgcgttgg accctgatct taccctggcg caccctggc tctgcctgcc gcgaagaccg gctcccgagc ccgcagaagt caggagagag ggtgaagcgg agcagcccca ggcggggcag cctcccgagc cagcgcgcgc cagagccggc gacaaatgggc ccgcggcggc tgctgctggt ggccgcctgc ttcagtctgt ggcgcgcgct gttgtctgcc cgcacccggg ccgcgaggcc agaatacaaa gcaacaaatg ccaccttaga tccccggtea tttcttctca ggaaccccaa tgataaatat gaaccatttt gggagatga ggagaaaaa gaaagtgggt taactgaata cagattagtc tccatcaata aaagcagctc tcttcaaaaa caacttcctg cattcatctc agaagatgcc tccggatatt tgaccagctc ctggctgaca ctccttgctc catctgtgta caccggagtg tttgtagtca gcctccact aaacatcatg gccatcgttg tgttcatcct gaaaatgaag gtcaagaagc cggcgggtggt gtacatgctg caccctggcca cggcagatgt gctgtttgtg tctgtgctcc cctttaaagt cagctattac ttttccggca gtgattggca gtttgggtct gaattgtgc gcttcgtcac cgcagcattt tactgtaaca tgtacgcctc tatctgtctc atgacagtca taagcattga ccggtttctg gctgtggtgt atcccatgca gtccctctcc tggcgtactc tgggaaggcg ttccttcaat tctctggcca tctgggcttt ggcacatgca ggggtagtgc ctctcgtcct caaggagcaa accatccagg tgcccgggct caacatcact accctgcatg atgtgctcaa tgaacccctg ctcgaaggct actatgccta ctacttctca gccttctctg ctgtcttctt ttttggccg ctgatcattt ccacggctcg ttatgtgtct atcattcgat gtcttagctc ttccgcagtt gccaacccga gcaagaaatc ccgggctttg ttcctgtcag ctgctgtttt ctgcatcttc atcatttgc tcggacccac aaacgtctc ctgattgcgc attactcatt ccttctcact acttccacca cagaggctgc ctactttgct tacctcctct gtgtctgtgt cagcagcata agctcgtgca tcgacccctt aatttactat tacgcttctc ctgagtgcca gaggtacgtc tacagtatct tatgtgcaa agaaagttcc gatcccgca gttataacag cagtgggcag ttgatggcaa gtaaaatgga tacctgctct agtaacctga ataacagcat atacaaaaag ctgttaactt aggaaaaagg actgctggga ggttaaaaaa aaaagttaac gaaagtgaat aacctgagga ttctattagt cccaccccaa actttattga ttcacctctt aaaaacacag atgtacgact tgcatacctg ctttttatgg gagctgtcaa gcatgtattt ttgtcaatta ccagaaagt aacaggacga gatgacggtg ttattccaa ggaattatgc caatgtaca gtaataaatg aatgtcactt ctggatatag ctagggtgaca tatacatact tacatgtgtg tatactgtaga	Homo sapiens	

324	4687	Thrombin Receptor	NP_001983.1	<p> tgtatgcaca cacatatatt attgcagtg cagtatagaa taggcacttt aaaacactct ttcccgcac ccagcaatt atgaataa tctcgattc cctgatttaa tatgcaaggt ctaggttggt agagtttagc cctgaacatt tcatggtgtt catcaacagt gagagactcc atagtttggg cttgtaccac ttttcaaat aagtatttt tgaattgtt tgacggcaag gtttaagtta ttaagaggtg agacttagta ctatctgtg ctgaagttc tagtgtttc aatttaaac ataccaggt tgaattcct aaattatgg aaacagatga aaagcctctg tttgatatg gtagtatatt ttacatttt acacattga cacataagcc aaactgagc ataagtcctc tagtgaatgt agtctggtt tcagagttag ctattcctga gagctgcatg tgtccgccc cgatggagga ctccaggcag cagacacatg ccagggccat gtcagacaca gattggccag aaacctcct gctgagcctc acagcagtga gactgggccc actacattg ctccatcctc ctgggattgg ctgtgaactg atcatgttta tgagaaactg gcaaaagcaga atgtgatc ctaggaggtg atgacctga aagactctc taccatctt aaaaaaacg aaagaaggca tggactctg gatgccatc cactggtgt aaacacatct agtagttgtt ctgaatgtc agttctgata tggagcacc cattatgctg tgtggccact ccaataggtg ctgagtgtag agagtggat aagacagaga cctgcccctca agagcaaat agatcatgca tagagtgtg tgtatgtga ataaatatgt ttacacaaa caaggcctgt cagctaaaga agttgaaca ttgggttac tattcttgt ggtataact taatgaaaac atgcagtagc aggacatata ttttttaaaa taagtctgat ttaattggc actatttatt tacaatgtt ttgtcaata gattgtcaa atcagggttt ctttaagaa tcaatcatgt cagtctgctt agaaataaca gaagaaata gaattgcat tgaattctag gaaaattatt ctataattc cattactta agacttaatg agacttaaa agcattttt accctctaa gtatcaagta tagaaaatct tcatggaatt cacaagtaa ttgtgaaatt agttgaaac atatctcta tcttacgaaa aaatggttagc attttaaca aaatagaaag ttgcaaggca aatgtttatt taaaagagca ggcagggcgc ggtggtcac gccgtgtaac ccagcattt gggaggtga ggcgggtgga tcacgaggtc agagatcga gaccatcctg gctaacacgg tgaacccgt ctctactaaa aatgcaaaaa aaattagccg ggcgtggtgg caggcacctg tagtcccagc tactcggag gctgaggcag gagactggc caacagagca aggcggacct tgtagtgagc cgagatcgc ccactgtgt ccagcctgg ccagcctgg caacagagca agactccatc tc </p>	Homo sapiens
325	4734	Thyrotropin Releasing Hormone Receptor	NM_003301	<p> tagcttcaag ccactgaaga tggaaaaaga gacagtcagt gaactgaacc aaacacagct A tcagccaca gcaagtggtg ccttagaata ccaggtggtc accatcttac ttgtactcat tatttgggc ctgggcatg taggcaacat catggtagtc ctggtgtgca tgagaaccaa gcacatgagg acccccacaa actgctacct ggtgagcctg gcagtagctg atctcatggt cttgggtggc gcaggcctcc ccaacataac agacagatc tacggttctt ggggtctatgg </p>	Homo sapiens

326	4734	Thyrotropin Releasing Hormone Receptor	NP_003292.1	ctatgttgga tgcctctgca ttacttacct ccagttattg ggaattaatg catcctcttg ttcaataaca gcctttacca ttgagaggtg catagaatc tgtcaaccca tcaaaagccca gtttctctgc acattttcca gagccaaaaa gattatcatc ttgtcttggt ctttcacatc tctttactgt atgctctggt tcttctgct ggaatcaat attagacatc aaaaagatgc tatttgata tctgtgggt acaagatctc caggaattac tactcaatc ttacctaata gactttggt gctttttag ttgtgcaat gatctggct accgtctct atgattcat agctagaatc cttttcttaa atcccatcc ttcatgctt aaagaaaact ctaagacatg gaaaaatgat tcaacccatc agaacaaca tctgaatga aatacctcta atagatgtt caacagcaca gtatctcaa ggaagcaggt caccagatg ctggcagtg ttgtaattct gtttgccctt ttatggatgc cctacaggac tctagtgtt gtcaactcat ttctctccag tcctttccaa gaaaaattggt ttttctctt ttgcagaatt tgcatttctc tcaacagtg catcaacccg gtgattaca atctcatgtc ccagaaattc cgtgcagcct tcagaaagct ctgcaactgc aagcagaagc caacagagaa acctgttaac tacagtgtgg cctaaatta cagcgtcatc aaggagtcag acctttcag cacagagctt gatgatata cgtcacatga cacttacctg tctgccaca aagtgtctt tgatgacac tctgtggctt ctgaggtatc ctttagccaa agttgattca tgaattagaa gaaaatggat gacaaagaaa ttgagaatct gtgcagtcac caacaaaagg gagaacatgg ccaatagtca tatgtgaaga cagagcagat cagttcttgg caatgctcta acaaacgg	Homo sapiens
327	4944	Angiotensin II Type 1 Receptor	NM_000685	MENEYSELN QTQLQRAV ALEYQVVTIL LVLIICGLGI VGNIMVVLV MRTKHMRTPT P NYLVSLAVA DMVLVAAGL PNITDSYGS WYGYVGLC ITYLYLGIN ASSCSITAFI IERYIAICHP IKAQFLCTFS RAKKIIIFW AFTSLYCLMW FFLDLNIST YKDAIVISCG YKISRNYSP IYLMDFGVF VPMILATVL YGFARILFL NPIPSDPKEN SKTWKNDSTH QNTNLNNTS NRCFNSVSS RKQVTMLAV WILFALLMW PYRTLVVVNS FLSSPFQENW FLFCRICIY LNSAINPIY NLMSQKFRRA FRKLCNCKQK PTEKPANYSV ALNYSVIKES DHFEELDDI TVTDTYLSAT KVSFDDTCLA SEVSFSQS attcggagct gcctcctgc caatgattcc agcgcctgac agccaggacc ccaggcagca A gcgagtga ca ggaagctctg accggcgcgc cgttagcagc tctgccggc cgcggcgggtg atcgtatggg agcggctgga gcggaccag cgaagtgggg cgcacagccg gacgcccag gcggcggcg ggagaccgc accagcgcag ccggccctcg gcgggacgtg acgacgccc cggggcgcg gttgatatt tgacaaattg atctaaaatg gctgggttt tatctgaata actcactgat gccatcccag aaagtcggca ccaggtgtat tgatatagt gtttgcaaca aatcgaccc agtgatcaa aatgattctc aactcttcta ctgaagatgg tattaaaaga atccaaagat attgtcccaa agctggaagg cataattaca tattgtcat gattcctact ttatacagta tcatcttgg gttgggaata ttggaaaca cttgggtgtg gatagtcatt tacttttata tgaagctgaa gactgtggcc agtgtttttc ttttgaattt agcactggct gacttatgct ttttactgac ttgtccacta tgggtgttct acacagctat ggaataccg tgccctttg gcaattacct atgtaagatt gcttcagcca cgtcagttt caacctgtac gctagtgtgt ttctactcac gtgtctcagc attgatcgt acctggctat tgttcacca atgaagtccc gccttcgacg cacaatgctt gtagccaaag tcacctgcat catcatttgg ctgctggcag gcttggcccag ttgtccagct ataatccatc gaaatgtatt ttcatagg aacaccaata ttacagtttg tgctttccat tatgagtccc aaattcaac ccttccgata	Homo sapiens

328	4944	Angiotensin II Type 1 Receptor	NP_000676.1	<p>gggctgggccc tgacaaaaa tatactgggt ttctgtttc cttttctgat cattcttaca agttatactc ttatttggaag ggcctaaag aaggtctatg aaattcagaa gaacaaacca agaaatgatg atatttttaa gataattatg gcaattgtgc tttctttttt cttttcctgg attccccacc aaatattcac tttttggat gtattgtatc aactaggcat catacgtgac tgtagaattg cagatattgt ggacacggcc atgcctatca ccatttgtat agcttatttt aaccaatgcc tgaatcctct tttttatggc tttctggga aaaaaattaa aagataattt ctccagcttc taaaatatat tccccaaaa gccaatccc actcaaacct ttcaacaaaa atgagcacgc tttctacccg cccctcagat aatgtaagct catccacca gaagcctgca ccatgttttg aggttgatg acatgttga aactgtcca taaagtaatt ttgtgaaga aggagcaaga gaacattcct ctgcagcact tcactacca atgagcatta gctacttttc agaattgaag gaaaaaatgc attatgtgga ctgaacgcac ttttctaaag ctctgaacaa aagcttttct ttccttttgc aacaagacaa agcaaaagcca cttttgcat tagacagatg acggctgctc gaagacaat gtcagaaact cgatgaatgt gttgatttga gaaattttac tgacagaaat gcaatctccc tagcctgctt ttgtcctgtt attttttatt tccacataaa ggtattttaga atataattaa tcgttagagg agcaacagga gatgagagtt ccagattgtt ctgtccagtt tccaaaggcc agtaaaagtt tcgtgccggt ttccagctat tagcaactgt gtacacattg cactgtgtac tgcacatttt gtacaagat atgctaagca gtatgtctca agttgcagat ctttttgtga aattcaacct gtgtcttata ggtttacact gccaaaacaa tgcccgtaag atggcttatt tgtataatgg tgttactaaa gtcacatata aaagttaaac tactgttaaa ggtgtgtcac tgggtccaag tagtagtgtc ctctagtagt attagtttga tttaatatct gagaagtga tatagtttgt ggtaaaaga ttatatatca taaagtatgc cttctgtgtt aaaaaagta tatattctac acatatatat atatgtatat ctatatctct aaactgtgt taattgatta aaactgtgca aagttatatt tactttaaaa taaataaatt ttattgc</p>	Homo sapiens
329	4946	Angiotensin II Type 2 Receptor	NM_000686	<p>TVASVFLLNL ALADLCFLLT LPLWAVVTAM EYRWPFNGYL CKIASASVSF NLYASVFLLT CLSIDRYLAI VHPMKSLRRL TMLVAKVTCI IILWLAGLAS LPALIIHRNVF FIENTNITVC AFHYEQNST LPIGLGLTKN ILGFLFPFLI ILTSYTLIWK ALKKAYEIQK NKPRNDDIFK IIMAIVLFFF FSWIPHQIFT FLDVLIQIGI IRDCRIADIV DTAMPITICI AYFNCLNPL FYGFLGKKFK RYFLQLLKYI PPKAKSHSNL STKMSTLSYR PSDNVSSSTK KPAPCFEVE acgtccacgc gtctgagaga acgagtaagc aagaattcaa agcattctgc agcctgaatt A ttgaaggaggt gtgttttaggc actaagcaag ctgatttatg ataactgctt taaacttcaa caaccaaaag cataagaact aggagctgct gacatttcaa tatgaagggc aactccaccc ttgccactac tagcaaaaac attaccagcg gtcttcaact cgggctgttg aacatctctg gcaacaatga gtctaccttg aactgttcac agaaaccatc agataagcat ttgatgcaa ttcctattct ttactacatt atattttgaa ttggatttct ggtcaaatatt gtctgggta cactgttttg ttgtcaaaag ggtcctaaaa aggtttctag catatacatc ttcaacctcg ctgtgggtga ttactcctt ttggctactc ttcctctatg ggcaacctat tattcttata gatatgactg gctcttttga cctgtgatgt gcaaaagttt ttgttctttt cttaccctga acatgtttgc aagcattttt ttatcacct gcattaggtg tgatagggtac caatctgtca tctacccctt tctgtctcaa agaagaaatc cctgggcaagc atcttatata gtcccccctg</p>	Homo sapiens

330	4946	Angiotensin II Type 2 Receptor	NP_000677.1	<p>tttggtgtat ggctgtttg tctcattgc caacatttta ttttcgagac gtcagaacca ttgaatactt aggagtgaat gcttgcattha tggctttccc acctgagaaa tatgcccatt ggtcagctgg gattgcctta atgaaaaata tcttgggtt tattatccct ttaattattca tagcaacatg ctattttgga attagaaaac acttactgaa gacgaatagc tatgggaaga acaggataac ccgtgaccac gtcctgaaga tggcagctgc tttgttctg gccttcatca ttgggtgctt tcccttcact gttctgacct gtttgatgc tcttgctgg atgggtgtca ttaatagctg cgaagtata gcagtcattg acctggcact tccctttgcc atcctcttgg gattcaccaa cagctgcgtt aatccgtttc tgtattttt tgttgaaaac cggttccaac agaagctccg cagtgtgtt aggttccaa ttacttggct ccaagggaag agagagagta tgtcttgccg gaaaagcagt tctcttagag aatggagac ctttgtgtc taacggaga gcaaatgca tgtaataaac atggctactt gctttgagc tcaccagaat tatttttaag tggttttaat aaataataa aatttccct aatctttct gaatcttctg aaacaaatg taactatgtt tatcgtccag tgactttcag gaatgccat tgtttctga tatgtttgta caagatttca ttggtgagac atatttaca cctagaagta actggtgata tatctcaat tgtaattaat aatagattgt gaataatgat ttgggagtc agatttctct ttgaacatg ctgtgttctc ttagtgggt tttatatcca tttttatcag gatttctct tgaaccagaa ccagctcttc aactcattgc atatttaca agacaacatt gtaagagaga tgagcacttc taagttgagt atattataat agattagtag tggattattc aggttttagg catatgcttc tttaaaaacg ctataaatta tttcctctt gcatttctc tgagtggagg tttatagtta atctataact acatattgaa tagggctagg aatatagatt aatcatact cctatgcttt agcttatttt tacagttata gaaagcaaga tgtactatata catagaattg caatctataa tatttgggtg ttactataac tctgaataag cactttttta aaaactttct actcatattta atgattgttt aaagtttct attttctctg atactttttt gaaatcagta aacactgtgt attgtgttaa aatgtaagg tcacttttca catccttgac ttttagatg tgtgctttg atatatagga cattgatttg attttatta ttaatgcttt ggttctgggt tgtttcctaa aatatctggg tggcttaaaa aaaactctt aactgtaat aaaccttaa ctggcatagg aaatggtatc cagaatggaa ttttgctaca tggggtctgg gtgggggcaa agagaccag tcaattacat gtttggtacc agaaaaggaa cctgtcaggg cagtacaatg tgactttgaa aatatatacc gtgggggtag ttttacccta tatctataaa cactgtttgt tccagaatct gtatgattct atggagctat tttaaaccaa ttgcagggtc aga</p>	Homo sapiens
331	5072	Pyrimidinerg ic Receptor P2Y4	NM_002565	<p>atggccagta cagagtcctc cctgttgaga tccctaggcc tcagcccagg tccctggcagc A agtgaggtgg agctggactg ttggtttgat gaggatttca agttcactct gctgcctgtg agctatgcag ttgtctttgt gctgggcttg ggccttaacg ccccaacct atggctcttc atcttccgcc tccgacctg ggatgcaacg gccacctaca tgttccacct ggcattgtca</p>	Homo sapiens

332 5072 Pyrimidinerg NP_002556.1 IFRLRPDAT ATYMFHLALS DTLYVLSLPT LIYYAAHNNH WPFGEICKF VRFLFYWNLY
ic Receptor
P2Y4

Homo
sapiens

gacacctgtg atgtgctgtc gctgcccacc ctcatctact attatgcagc ccacaaccac
tggccctttg gactgagat ctgcaagttc gtccgctttc tttctattg gaacctctac
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agggcagata gattgtaa

SEVELDCWFD EDFKFIILPV SYAVFVLGL GLNAPTILWF P
MASTESSLLR SLGLSPGGS
LRLRWGRPR LAGLLCLAVW LVVAGCLVFN LFEVTSNKG
SSAVMGLLFG VPCLVTLVGY GLMARRLYQP LPGSAQSSSR
FHITRTIYVL ARLEADCRV LNIVNVYKV TRPLASANS
CGGKPKQPRNT AASSIALVSL PEDSSCRWAA TPQDSSCSTP
RADRL

333 5117 Vasopressin NM_000706
V1A Receptor

Homo
sapiens

taattgcttg aaggattttt tccagacagg tggctgtgaa acctttacc tattacctc A
catccctgaa ccatttcaat ctctgcctc ctggatatct tggagaaat gaaccaaac
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334	5117	Vasopressin V1A Receptor	NP_000697.1	PSGNSPPWP LATGAGNTR EAEALGEGNG PPRDVNEEL AKLEIAVLAV P TFAVAVLGNS SVLLALHRTF RKTSRMHLFI RHLSLADLAV AFFQVLPQMC WDITYRFRGP DWLCRVVKHL QVFGMFASAY MLVVMTRADRY IAVCHPLKTL QQPARRSRIM IAAWVLSFV LSTPQYFVFS MIEVNNVTKA RDCWATFIQF WGSRAVVTWM TGGIFVAPVV ILGTCYGFIC YNIWCNVRGK TASRQSKGAE QAGVAFQKGF LLAPCVSSVK SISRAKIRTV KMTFVITAY IVCWAPFFII QMWSVMDPMS VMTESENPTI TITALIGSLN SCCNPWIYMF FSGHLLQDCV QSPCCQNMK EKENKEDTDS MSRRQTFYSN NRSPTNSTGM WKDSPKSSKS IKFIPVST	Homo sapiens
335	5118	Vasopressin V1B Receptor	NM_000707	ctccagccgc tgcaccag gacagcgag cggcctggc tggggcttc tgcctgagc A gcgacaccga ctgctccgga ccgcgcctcc aagcagctg aaggccttc gctctggct tccagaaaag ttggagaaa gagaattga ggcggattgg aggggtgtag cccctccca ctctctcttc tctccagaa gctcaactc gcacagctc cccattctt cccgtctga ttccccatct tctgacccc tctctctcc tctctgggt cgatcccat cacatttct cctccgaat ctcatctcc cctctctct ctatccagt ctctgacg attccgctt attggaagc cttctccctg tcattctca cgtctctct ttctctcac ctccctgct actccatttt atccatcaaa cctctccact tggatccaca cctcccttc atctctcc cccagcaaac cttgctcatg gattctggc ctctgtgga tgcaccccc accctcggg gcacctctc tgcctccaat gccacacac cctggctggg ccgggatgag gagctggca agtgaggat cggagtctg gccactgtcc tgggtctggc gaccggggc accctggctg tgctgtgac cctgggcccag ctgggcccga agcgtctccg catgacactg ttcgtgctg acttagccct gacagacctg gccgtggcg tcttccagt gctgccacag ctgctgtggg acatcaccta ccgtctccag ggcctccacc tctgtgtag ggcctcaag tacctgcag tgctcagcat gtttgcctcc acctacatgc tctggccat gacgtggac cgtacctgg ctgtctgtca cccctgcgc agcctccag gccaggcca gtccacctac ctgctcctg ctgctccctg gctgtggcc gccattctca gctccctca agcttctt tttccctgc gggaggtgat ccagggtbca ggggtgctgg actgtggcg agacttggc ttccttggg ggccacgggc ctacctacc tggaccacc tggctatctt cgttctgctg gtgacctgc tcacggcctg ctacagctc atctgcccag agatctgtaa aaacctaaaa gtcaagacac agggctggcg ggtggaggga gggggctgga ggacttggga caggccctca ccttccact tagctgccac cactcggggg ctgccatctc gggctcagag catcaacac atctcaggg ccaagatccg aacagtgaag atgaccttg tcatcgtgct ggcctacatc gcttgcctgg ctccctctt cagtgtccag atgtgtgctg tgtgggacaa gaatgccct gatgaagatt	Homo sapiens

Homo
sapiens

P

NP_000698.1

Vasopressin

V1B Receptor

5118

336

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Homo
sapiens

A

NM_000054

Vasopressin

V2 Receptor

5119

337

338	5119	Vasopressin V2 Receptor	NP_000045.1	MLMASTTSV ALARRGRGH VGMYASSYMI RVNVEGSGVT SERPGRRRG PLEGAPFVLL ASSSLAKDTS	PGHPSLSLP WAPIHVIGH LCLADLAVL ICRPMLAYRH GRRTYVTWIA HVSAAVAKTV NPWIIYASFSS SVSSELSLL	TRDPLLARAE FQVLPLAWK GSGAHWNRPV LMVEVAPTLG RMTLVIVVY VLCWAPFFLV CCARGRTPPS	LALLSIVFVA ATDRFRGPD LVAWAFSLLL IAACQVLIFR EIHASLVPGP QLWAAWDPEA LGPQDESCIT	Homo sapiens
339	5133	Peropsin	NM_006583	gaataagcct ataaattagg aacacaatat taatagtctt ttattaacct cctcagatct tgaatatatt acctgacct tgattctggg ctagtattgc gatcttttgt tgatgtttta gcactgagtc tcattgatctg cttttggtga aatcttctac caatgcttgc ccatggatgt acgctatatca gatcaagtgc tgctccggt acttattgct	tcgataatta caacagttca tggtgcaact gggcactctc ggctgttact gtatgggaagt ttttgggaatg ctgccttct agcctggatc ccagatcct gtcttacacc ctgtattac cctcaacaga catgtttctg cccaagaag attcctccc cctgcattt tgtcagact ccattggctt tttttgaca cattgtccta ggctgctgta catctccttt	tgaagggtgt gactctaaaa tacttgatta attaagtaca gataagggg tggaattttg gcaagcattg gacgtaggga aatggcctgt actgggtcta atgacagtta catgtcacgc gactggtcag gtggcatggt attcctccc cctgcattt tgtcagact ccattggctt tttttgaca cattgtccta ggctgctgta gatgaattag	ttcgggtatct atgaagtgg tggcaggtat aggaacttcg tcagtagcat gatacgcagg gattactcac gaagaatgac tttgggcttt cgtgtacct tttcgataaa tatccattaa atcagataga cccttattc catcgtgtgc catagctcca taataaaaag cctgtgaca ctggaagaat atgcttttct tgagagtga gtgtatgctt ttaagggtccc ctttcttct	Homo sapiens

340	5133	Peropsin	NP_006574.1	ccctattatg gcatgcatta cactgtactg atgacacctta acttgccctgg ctcc MLRNLGNSS DSKNEDGSVF SQTEHNIVAT YLIMAGMISI ISNIIVLGIF IKYKELRTP P NATINLAVT DIGVSSIGYP MSAASDLXGS WKFGYAGQOV YAGLNIFFGM ASIGLLTVVA VDRLTICLP DVGRMTNT YIGLILGAWI NGLFWALMPI IGWASYADDP TGATCTINWR KNDRSFVSYT MTVIAINFIV PLTMFYCY YHVTLSIKHHT TSDCTESLNR DWSDDIDVTK MSVINICMFL VAWSPYSIVC LWASFGDPKK IPPPMALIAF LFAKSSTFYN PCIYVWANKK FRRAMLAMFK CQTHQMPVT SILPMDVSN PLASGRI	Homo sapiens
341	5519	Brain-Specific Angiogenesis Inhibitor 1	NM_001702	ggactttaga agccctgtgt cccctctctg tcacctgaag cggggccctc tccatccca A cccttgcccc gctccctctg ccccaaccgg ccgcccctgc ccgcccgg accctggcat gtcaagacct ggtccggccc tgccctgccca gcccggggaa ccccgggcg cccgcgagct aggtatgaggg gccagggcgc cggcccgggc cccgtctgga tccctgccc gctgctactg ctgctgtgc tgtgggacg ccgcgccggg gcggccggcg gagcagacgc ggggcccggg cccagaccgt gcgccacgt ggtgcaggga aagttctctg gctactctc cgggcccgc gtgtcccg ccaacgctc gcctgtctcc tggacgctac gaaacccgga cccgcggcg tacactctc acatgaagt ggccaaaggc cccgtgccct gcagcggccc cggccgctg cgacactacc agttcgact ctctcctcag tccacgcgca cctacctggg cgtggagac ttcgacgagg tgtgctggct ctgcgacccc tccgacccc tggccttct gcaggccagc aagcagttcc tgcagatgcy gcgccagcag ccgcccacg acgacgggt ccggcccgg gccggggcgc cgggcccac gcagacttc tccgtggagt acctggtgt gggaacacgc aaccccagcc gtgcgcctg ccagatgctg tgccgctggc tggacgcgtg tctggccggt agtcgagct cgcacccctg cgggacatcag cagacccct cgcctgctt ggccggcgag gctggcggcc ctgcgcgggg accctgccc ccccggggg atgtctgtt gagagatgcg gtggctgggt gccctgaaaa ctgcctcacc agcctgaccc agacccggg cgggcacggc gccacaggcg gctgggaagt gtggtccctg tggggcgaaat gcacgggga ctgcgggga ggcctccaga cggggacggc cactgctctg cccgcgcgg gcgtggagg cggcggtgc gagggggtgc tggaggaggg tgcacagtgc aaccgaggg cctgcggccc cgtggggc accagctccc ggagccagtc cctgcggctc acagatgcc ggcggcgga gagctggg gacgagctgc agcagtttg gtcccagcc cccagaccc gtgacccag agccgaggag tggtcccccgt ggagcgtgtg ctccagacc tgcggcgagg gctggcagc ccgcacgcg ttctgcgtgt cctcctcta cagcagcag ggtgctggg atgagtgtc gccctggagc tgcaacaact ctgcccgtgt cccagtgcac ggtgctggg cgcgcacct caggccccc ctctgtcca gcacctgtg cgtggctt tgagggcccc gagaagcaaa ccaagttctg caacattgcc cagtttgggg gcaacccctg tgagggcccc ggatggaaac tggaaatgagt ggtcagctg gagcgctgc ctgtgccccg gccgggcagt ggatggaaac tggaaatgagt ggtcagctg gagcgctgc tccgccagct gctcccagg ccgacagcag gcacgcctg agtgcacct gccttctac gggggtgcgg agtgccagg ccactgggtg gagacccgag actgttctt gcagcagtg ccagtgagtg gcaagtggca ggcctgggtg tcatgggga gttgcagct cactgtgtg gctggagcc agcgacggga cgtgtctgc tctggcccc tcttcgggg agcagcctg cagggcccc aggatgagta ccggcagtc ggacccagc ggtgtccga gcccctgag atctgtgatg aggaacaatt tgggtgctgtg atctggaag agacccagc gggagaggtg	Homo sapiens

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[illegible]

343	5520	Brain-Specific Angiogenesis Inhibitor 2	NM_001703	GDGDFKKLD SELSRAQEKALDTSYVILPTATATLRPKPK EEPKYSIHID QMPQTRLIHL STAPEASLPA RSPPSRQPPSGPPEAPPAQ PPPPPPPPP PPQPLPPPP NLEPAPPSLG DPGEPAHPG PSTGESTKNE NVATLSVSSL ERKRYAEL DFEKIMHTRK RHQDMFQDLN RKLOHAAEKD KEVLGPDSPK EKOQTPNKR PWVKKELEP LQSPLELRS VEVERSGATI PLVGQDIDL QTEV	Homo sapiens
				gccccgagg agaggggag cctcgccct cgcggggct gcagctacct accctgcgcc A cgccaggct cccagcttag gatgggcaaa ctggcgccc gtggcgccc cgcagcgcg cgccccgc tctgtctgtc gacggcgccc aggaatacca cagcagtgat acatgtgacg tcacactga cagtgcctc ctgtggcat ctgtggcgtt gtgcgagtt cctggcacac tggtgtaac tccgcccctt tctctccctc tcagtaaac aagattacgc ggtgacatgc ctcacagctg atcacgacac acggggatgg agagcaagag ttatggagaa tacagggttg atgggcaagg gacataggat gacccagcc tgccccctt tactgtctgt gattctgtcc ctggcctgg ccacgcctt cgcacggcc cccagtgcc gtctgccc ggcctgggt gtgtctacg gggcctctc gtgcaggac ctcttctc catcgccc ggtgtgctc tggaacctgg agaacctga ccccaacaag tactccctt acctgcctt caaccgccc gagcaggtgt gcgcacctt tgccccccg ctgctgccc tggaccacta cctggtcaac tttacctgcc tgcggcctag ccccgaggag gcggtggccc aggggagtc agagtgggg cgccagaaag aggaggggc agaggggca gcgggttggt agctgtgacg cggctcagc ccctttacct tctgtacct cgacaagaac ttcgtgcagc tgcctgtc ggtgagccc tccgagccc cgcgctgtc ggcggcgtt acctagctt tccgttctg caggtcttg ctcatcaaca acaacaactc tagccaatc cctgtgtgtg tgcctgccc ctggagtgag gagtgtggcc gcgctgcgg caggccctgc gctttgtc agccaggctg cagctgccc ggagagggcg gggccgctc caccaccac acatctccg cccctctgc tggccacac ctgtccaatg cctgtgtgc cgggggccc gcccacctg ctgaggccga tttgcactg ggagcagca atgatctgtt cacaaccgag atgagatag gtgaggagcc ggaagaggaa ccgaaagtga aaaccagtg gccgaggtct cagatgagc ctgggctata catggcgacg acaggcgacc cggcggtgga ggagtgtcc cgtgtgagc cctatggac cctgtgcagc cagggtctgc aggtgcggac ccctgcaac aattcagcca cctgcccagt gcacggcgtg ggccccctg gggagaccag gcccgtgctg tcccagact gcggcgggg gtcccggagc tgggaggagt gggggtcctg gagcctgtgc ccccgagc ggcggcaagg cctgcaggg cggatgcgga cctgcgtgc ccccgagc cgggtggaag gccagtgtt agaattgggt cagactaagc tctgcagat ggtgcctgc cctgtgccc aatgggaccc acagcgacg ccggaagtgc ccctggggcc catgctccac gtccgtgccc gtcctgccc acagcgccc cgcgaagtgc agcgtggcg gccagcctg gcccacatg cccagtcctg tccctgacac cccggagtg agcaacctg agtcccggc cactgacg aagtggggc catggaatgc gtggagcctg tgctctaaga cgtgtgacac agctggcag ggcaggtga agcctgtgag tgagaagag acgcagggt acccctgga gggcaccgga gagggagtg ccatgtgtg ggcacgggc tgtccagct tccatgagat gtgcaggat gactacgtga tgcgtgac gtggaagag gcagctgctg gcgagatcat ctacaacaag tccccccga atgcctcagg gtctgccag cgccgctgtc tccctcagtc ccaaggcgtg gcgtactggg ggtgcccag ctttgcctgc tgcatctccc atgagtaccg ctacctgtat ctgtcactta gggagcacct ggccaagggg	

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344	5520	Brain-Specific Angiogenesis Inhibitor 2	NP_001694.1	<p>ccgcgcacac ccagcgcccg ccaagtgcc gagcagggg agcgagccg gaccatgcct cgcacgtgc ccgctctac catgaagatg ggctccctg agcgaaagaa attacggtat tcagacctgg actttgaggt gatgcacacc cgaaacagcg attcagaact ctaccacgag ctcaaccaga agttccacac ttctgaccgc taccgacgcc agtccacggc caagaggagag aagcgttgga gtgtgtcttc gggtggggcg gccgagcgga gcgtgtgcac cgataagccc agccttgagg agcgcctcag ctgtgtccaa catcgcgcc atcagagctg gagcaccttc aaatctatga cactggctc gctgccccc agccccgag aacggctgac tctgcaccgg gcagcagcct gggagccccc agaaccacg gatggtgact tccagacaga ggtgtgagtg ccagctgga ctgcccactg catataata tatatatct tctatttca cactccactt tggaactacc caggagccag cgcctctctc cdtctccga gggctggga gggagcgcc gtgactcag ccagctggg gtagccggac atggttggtg ctggggtccc agggcccttc ctgtttctc agaggccct cagccactgg aacccatct tcagcccgag ctgtccgtcc ctgtcccggg ctggggagg gggagggga cttgtgtgg aataaactt actctgtg MTPACPLLS VILSLRLATA FDPAPSACSA IASGVLYGAF SLQDLFPTIA SGCSWTLENP P DPTKYSLYLR ENRQEQVCAH FAPRLPLDH YLVNFTCLRP SPEEAVAQAE SEVGRPEEEE AEEAAGLELC SGSGPFTFLH FDKNFVQLCL SAEPSEAPRL LAPAALAFRE VEVLLINNN SSQFTCGVLC RWSEECGRRA GRACGFAQPG CSCPGEAGAG STTTSPGPP AAHTLSNALV PGGPAPPAA DLHSGSSNDL FTTEMRYGEE PEEPKVKTQ WPSADEPGL YMAQTGDPAA EWSPPSVCS LTCGQLQVR TRSCVSSPYG TLCSGPLRET RPCNNSATCP VHGWEEWGS WSLCSRSRGR GSRSMRTCV PPQHGGKACE GPELQTKLCS MAACPVEQGW LEWGPWGPCS TSCANGTQOR SRKCSVAGPA WATCTGALTD TRECSNLECP ATDSKWGPWN AWSLCSKTCD TGQRRFRMC QATGTQGPC EGTGEVKPC SEKRCAPFHE MCRDEYVMLM TWKAAAGEI IYNKCPNAS GSASRRCLS AQGVAYWGLP SFARCSISHEY RYLYLSLREH LAKQRMLAG EGMSQVVRSL QELLARTYY SGDLLEFSDI LRNVDTFKR ATYVPSADDV QRFQVVSFM VDAENKERWD DAQVSPGSV HLLRVDEFI HILVDALKAF QSSLIVTDNL VISIQREPVS AVSSDITFEM RRRGMKDWV RHSEDRFLP KEVLSLSSPG KPATSGAAGS PGRGRPGTV PPGPGHSHQR LLPADPDESS YFVIGAVLYR TLGLILPPPR PPLAVTSRVM TVTVRPPTQP PAEPLITVEL SYIINGTTDP HCASWDYSRA DASSGDWDE NCQTLETQAA HTRCQCQHL TEAVLAQPK DITLELAGSP SVPLVIGCAV SCMLLTLLA IYAAFWRFIK SERSIILLNF CLSILASNIL ILVGQSRVLS KGVCTMTAAE LHFFFLSSFC WVLTEAWQSY LAVIGMRTR LVRKRFCLG WGLPALVAV SVGFTRTKGY GTSSYCWLSL EGGLEYAFVG PAAVIVLVNM LIGIIVFNKL MARDGISDKS KKQAGSERC PWASLLLPSCS ACGAVPSPLL SSASARNAMA SLWSSCVVLP LLALTWMSAV LAMTDRRSVL FQALEAVENS AQGFVITAVH CFLRREVQDV VKQMGVCRA DESEDSFDC KNGQLQILSD FEKDVLDLACQ TVLFKEVNTC NPSTITGTL RLSLDEDEEP KSCLVGPEG LSFSPLPGNI LVPMAASPL GEPPPPQEAN PVMCGEGGL RQLDLTWLRP TEPGEGDYM VLPRTLSLQ PGGGGGGED APRARPECTP RRAAKTVAHT EGYPSFLSVD HSGGLGPAY GSLQNPYGMT FQPPPTPSA RQVPEPERS RTMPRTVPGS TMKMGSLERK KLYRSLDFE VMHTRKRHSE LYHELNQKHF TFDYRSQST AKREKRSVS SGGAAERSVC TDKPSGERP SLSQHRRHQ SLSQSKMTLG SLPPKPRERL TLHRAAAWEP TEPPDGDFTQ EV</p>	Homo sapiens
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345	5521	Brain-Specific Angiogenesis Inhibitor 3	NM_001704	Homo sapiens
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aagcaacgat tcatgttga accgcttcat atggttttag tttcaaaaaa cttcaccatg

346	5521	Brain-Specific Angiogenesis Inhibitor 3	NP_001695.1	<p>aagcacaatg tatatattta tgcagttttt aaagtttata acagtctgtt tggccattac tacactttt actttataat ataaagcaa agttttgtc ataaatgaa tgtttgttga gtacattct tcattgcttt aaatgcaata agtaataat ctcactttta tatgaataat atatttaca tctttattat tgcagttttc tctagaagc tctgagaagc tttctctgct gcagctgtgt ataaatatt taaaatgttg tatggtgtaa ataaacttt gtctacat MKAVRNLLIY IFSTYLLVNF GFNAQQDFWC STLVGKVIKD SYRSEMFPK LFTNCTWTLE P NPDPYKYSIY LKFSKKDLSC SNFSLLAYQF DHFSHEKIXD LSRKNHSIMQ LCNSKNAFVF LQYDKNFIQI RRVFPTNPPG LQNGEEDQK SFFFEVLNK VSPSQFGCHV LCTWLESCLK SENGRTESCG IMYTKCTCPQ HLGEWGIDDQ SLILNNVVL PLNEQTEGCL TQELQTTQVC NLTREARPP KEFGMMGDH TIKSQRPVS HEKRVPEQA DAAKEMAQTG ESGVEWSQW STCSVTCGQG SQVTRTCVS PYGTHCSGEL RESRVCNNTA LCPVHGVEE WSPWSLCSFT CGRGQTRTR SCTPPOYGGR PCEGPETHK PCNIALCPVD GQWQEWSSWS QCSVTCNGT QQRROCTAA AHGSECRGP WAESRECYNP ECTANGQWNO WGHWSGCSKS CDGGWERRIR TCQGAUITGQ QCEGTGEEVR RCSEQRCPAP YEICPEDYLM SMWKRTPAG DLAFNQCPLN ATGTTSRRCs LSLHGVAWE QPSEARCISN EYRHLQHSIK EHLAKQRM L AGDMSQVTK TLDDLTQRKN FYAGDLMSV EILRNVTDF KRASYIPASD GVQNFFQIVS NLLDEENKEK WEDAQQIYPG SIELMQVIED FIHIVGMGM DFQNSYLMTG NVVASIQKLP AASVLTDFN PMKGRKMVD WARNSDRV IPKSIFTPVS SKELDESSVF VLGAVALYKNL DLILPTLRNY TVINSKIIV TIRPEKTTD SFELELAHL ANGLNAPYCV LWDDSKTNES LGTWSTQGCK TVLTDASHTK CLCDRLSTFA ILAQPPREI I GQSGLSCL ALITLAVVYA ALWRYIRSER SIILINFCLS IISSNILLV QQTQHNKSI CTTTAFELH FFLASFQWVL TEAWQSYMAV TGKIRTRLIR KRFLCLGWGL PALVATSVG FTRTKGYGTD HYCWLSEGG LLYAFVGPAA AVVLNVMVIG ILVFNKLVS RAGOMSEPHS GLTLKCAKCG VVSTTALSAT TASNAMA SLW SSCVLP LLA LTWMSAVLAM TDKRSILFQI LPAVFDLSQG FVIVMVHCIL RREVQDAFRC RLNCQDPIN ADSSSEFPNG HAQIMTDFEK DVDIACRSVL HKDIGPCRAA TITGTLRSIS LNDDEEEKGT NPEGLSYSTL PGNVISKVII QQPTGLHMPM SMNELSNPCL KKENSELRT VYLCTDDNLR GADMDIVHPQ ERMESDYIV MPRSSVNNQP SMKEESKMI GMETLPHERL LHYKVNPEFN MNPVMDQFN MNLEQHLPQ EHMQLPFEP RTAVKNFMA S ELDDNAGLSR SETGSTISMS SLERRKSRY S DLDFEKVMHT RKRHMELFQE LNQKFQTLDR FRDIPNTSSM ENPAPNKNPW DTFKNPSEYP HYTTINVLDT EAKDALELRP AEWEKCLNLP LDVQEGDFQT EV</p>	Homo sapiens
347	6031	SIV/HIV Receptor BONZO	NM_006564	<p>gcagaccttg cttcatgagc agctcatct ctggaacaaa ctggcaaacg atctctgctg A gtgttcata gaacagacac catggcagag catgattacc atgaagacta tgggttcagc agtttcaatg acagcagcca ggaggagcat caagacttcc tgcagttcag caaggtcttt ctgcccctgca tgtacctggt ggtgtttgtc tgtggtctgg tggggaactc tctggtgctg gtcatacca tcttctacca taagttgcaag agctgacgg atgtgttctc ggtgaaccta cccctggctg acctgggtgt tgtctgcaat gcctcttct gggcctatgc aggcacccat gaatgggtgt ttggccaggt catgtgcaag agcctactgg gcatctacac tataacttc tacacgtcca tgtcatcct cacctgcac actgtggatc gtttcattgt agtgggttaag gccaccaagg cctacaacca gcaagccaaag aggatgacct ggggcaaggt caccagcttg ctcatctggg tgatatacct gctgggtttcc ttgccccaaa ttatctatgg caatgtcttt</p>	Homo sapiens

348	6031	SIV/HIV Receptor BONZO	NP_006555.1	<p>aatctcgaca agctcatatg tggttaccat gacgaggcaa tttccactgt ggttcttggc accagatga cactggggtt ctcttgcca ctgctcacca tgattgtctg ctattcagtc ataataaaa cactgcttca tgcctggagg ttccagaagc acagatctct aagatcatc ttcttggtga tggctgtgtt cctgctgacc cagatgcctt tcaacctcat gaagtctatc cgagcacac actgggaata ctatgccatg accagctttc actacacct catggtgaca gagccatcg catacctgag gaaacttgtg aaggacattg gttgcctccc ttaccttggg agtttcgaa agaacttctg gaaacttgtg aattccaaga ctttttctgc tccccaaat gtctcacatc aatggaatc ttctgaggac aattccagc gtttcgaga agtgcctctg gtggaggcca ccagcatgtt ccagttatag ccttgccag gtttcgaga agtgcctctg gaatttgcaa gtcattgctg tgcctcttg atgtggtgag gcaggctttg tttatagctt gcgattctc atggagaagt tatcagacac tctggtgtgt ttggaatgct tcttctcagg catgaacatg tactgttctc ttcttgaaca ctcatgctga aagcccaagt aggggtctc aaatttttaa ggactttcct tctccatct ccaagaatgc tgaacccaag ggggatgaca tgtactcct atgactctcag ttctccttg attggtgactg gggctgaagg ttgaagaggt gagcagggc acaaaagctg ttgatgttag gtggcacact ggggtgcccac gctcagaagg ctcttctgac tactgggcaa agagtgtaga tcagagcagc agtgaacaca agtgcctggc ccaccaggca cctcacagaa atgagatcag gctctgctc accctggggc ttgacttttg tatagtaga tgttcagatt gctttgatta atccagaata actagacca gggactatga atgggcacaaa ctgaattata agaggctgat aattccagtg gtccatggaa tgcctgaaaa atgtgcacaaa cagcgtttta gactgtaatg aatcaagca gcatttctga agtggactct ttggtggtt tgcattttta aatgaaat ttccaatgtc tggcacacaa acgtatgtaa atgtatatc ccacacacat acacacatat gtccatatatt actagcatat gagtttccata gctaagaaat aaactgtta agtctccaa act</p>	Homo sapiens
349	6204	Lysophosphat idic Acid Receptor Edg4	NM_004720	<p>KLQSLTDVFL VNLPLADLVE VCTLPPFWAY GIHEWVFGQV MCKSLLGITYT INFYTSMLIL TCITVDREIV VVKATKAYNQ QAKRMTWGV FLPLLTMIVC YSVIIKTLH AGGFQKHRSI KIIFLVMVAF GYHDEAISTV VLATQMTLGF FLPLLTMIVC YSVIIKTLH AGGFQKHRSI KIIFLVMVAF LLTQMPFNLM KFIKSTHWEY YAMTSFHYTI MTEAIAIYLR ACLNPVLYAF VSLKFRKNFW KLVKDIGCLP YLGVSHQWKS SEDNSKTFSA SHNVEATSMF QL</p>	Homo sapiens

350	6204	Lysophosphat idic Acid Receptor Edg4	NP_004711.2	ctggtcaaga ctgttgtcat catcctgggg gcgtctgtgg tctgctggac accaggccag gtgtactgc tctggatgg ttagctgtg gagtctgga atgtcctggc tgtagaaaag tacttctac tgttgccga gccaactca ctggtcaatg ctgctgtgta ctcttgccga gatgtgaga tgcgcgcac ctccgcgcg ctctctgtct gccggtgctt cgcgcagtc accgcgagt ctgtccacta tacatctct gcccaggag gtgccagcac tcgcatcatg ctcccgaga acggccacc actgatggac tccaccttt agtaccttg aacttcagcg gtacgggca agcaacaat ccacagcccc tgatgacttg tgggtgctcc tggtcaacc caaccaacag gactgactg	Homo sapiens
351	6213	C-C Chemokine Receptor 5	NM_000579	ctggtcaaga ctgttgtcat catcctgggg gcgtctgtgg tctgctggac accaggccag gtgtactgc tctggatgg ttagctgtg gagtctgga atgtcctggc tgtagaaaag tacttctac tgttgccga gccaactca ctggtcaatg ctgctgtgta ctcttgccga gatgtgaga tgcgcgcac ctccgcgcg ctctctgtct gccggtgctt cgcgcagtc accgcgagt ctgtccacta tacatctct gcccaggag gtgccagcac tcgcatcatg ctcccgaga acggccacc actgatggac tccaccttt agtaccttg aacttcagcg gtacgggca agcaacaat ccacagcccc tgatgacttg tgggtgctcc tggtcaacc caaccaacag gactgactg	Homo sapiens

352	6213	C-C Chemokine Receptor 5	NP_000570.1	<p> aaaatatgtt gatgaaaaat agcaaccttt ttatctcccc ttacatgca tcaagttatt gacaaactct cccttcactc cgaagtctcc ttatgtatat ttaaaagaaa gcctcagaga attgctgatt cttgagttta gtgactgaa cagaaatacc aaaattattt cagaaatgta caacttttta cctagtacaa ggaacatat aggttgtaaa tgtgtttaaa acagggtcttt gtcttgctat ggggagaaaa gacatgaata tgattagtaa agaaatgaca cttttcatgt gtgattccc ctccaagta tggtaataa gtttactga gtagaacca ggcgagagac ttgtgacctg ggaagctgg ggaagcttct taaatgaga ggaatttag ttggtatcat tattgctggc aaagacagaa gcctcactgc aagcactgca tgggcaagct tggctgtaga aggagacaga gctggttggg aagacatggg gaggaaggac aagcctagat catgaagaac cttgacggca ttgctcctgc taagtcatga gctgagcagg gagatcctgg ttggtgttgc agaagttta ctctgtgccc aaaggagggt caggaaggat gaggatttag ggcaaggaga ccaccaacag ccctcaggtc aggtgagga tggcctctgc taagctcaag gcgtgaggat gggaaggagg gaggtattcg taaggatggg aaggaggagg gtattcgtgc agcatatgag gatcagagt cagcagaact ggggtggatt tgggttgaa gtgagggtca gagaggagtc agagagaatc cctagtcttc aagcagattg gaaaaacct tgaaaagaca tcaagcacag aaggaggagg aggagttta ggtcaagaag aagatggatt ggtgtaaaa gatgggtctg gttgcagag ctgaaacaca gctcaccca gactccaggc tgtctttcac tgaatgcttc tgacttcata gatttcttc ccattccagc tgaatactg aggggtctcc aggaggagac tagatttatg aatacacgag gtatgaggtc taggaacata cttcagctca cacatgagat ctaggtgagg attgattacc tagtagtcat ttcatgggtt gttgggagg ttctatgagg caaccacagg cagcatttag cacatactac agcatcaata agcatcaaac tcttagttac tcattcaggg atagcactga ccaaagcatt gagcaaaagg tgcccatata attttctgca gcctgaaaaa ctaagatgct gcctgcccag tgcacacaa gttaggtatc attttctgca ttaaccctc aataggcaaa ggggggaaag gacatattca ttggaaaa agctgccttg agccttaaaa cccacaaaa tacaatttac cagcctcctg atttcagact gaatgggggt ggggggggcg ccttaggtac ttattccaga tgccttctcc agacaaaacca gaagcaacag aaaaaatcgt ctctccctcc ctttgaaatg aatatacccc ttagtgttg ggtatatcca ttcaaaaggg agagagagag gttttttctt gttctttctc atagtattgt gcacatactt gagactgttt tgaatttggg ggtggtctaa aacctcata gtacaggtaa ggtgagggaa tagtaagtgg tgaghaactac tcagggaatg aaggtgtcag aataaaga ggtgctactg actttctcag cctctgaata tgaacgggtga gcatgtggc tgtcagcagg aagcaacgaa gggaaatgct ttctctttg ctcttaagt gtggagagtg caacagtagc ataggacct accctctggg ccaagtcaaa gacattctga catcttagta ttgcatatt cttatgtatg tgaaggttac aaattgcttg aaagaaaaa tgcattcaat aaaaaacacc ttcta LKSMTDIYLL NLAISDLFFL LTVPFWAHYA AQWDFGNMT QLLTGLYFI GFFSGIFFII LLTIDRYLAV VHAFFALKAR TVTFGVVTSV ITWVAVFAS LPGIIFTRSQ KEGLHYTCSS HFPYSQXQFW KNFQTLKIVI LGLVLPPLVM VICYSGLIKT LLRCRNEKRR HRAVRLIFTI MIVYFLWAP YNIVLLNTF QEFFGLNCS SSRLDQAMQ VTETLGMTHC CINPIIYAFV GEKFRNYLLV FFQKHIAKRF CKCCSIFQOE APERASSVYT RSTGEQEISV GL </p>	Homo sapiens
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353	6363	Chemokine (C-C motif) Receptor- like 2 (CCRL2)	NM_003965	<p> tctgtctctg gggaagtggg cacacgttaa aagaaatgtt tatttcagtc ttctgaaata A gggaattact ctggctaaaa ttagctctca gaaagggaaa gtgggctgt atgaatccag gtccagtttg ttgttcttc caggataagg cagctgtcgg aggggaaaat catctcccat ttctccacag ggcagtctga agatggccaa ttacacgttg gcaccagagg atgaatatga tgtctctcata gaaggtgaac tggagagcga tgaggcagag caatgtgaca agtatgacgc ccaggcaact ctgcccagc tgggtccatc actgtctct gctgtgttg tgatcgtgtg cctggacaat tctctggttg tgcttatctt gtaaaatat aaaggactca aacgctgga aaatatctat ctctaaact tggcagtttc taaattgtg ttcttgctta cctgcccc ctgggctcat gctggggggg atccccatg taaaattctc attgactgt acttcgtggg cctgtacagt gagacattt tcaattgctt tctgacttg caaaggtacc tagtgtttt gcacaagggc aacttttct cagccagagg gaggtgccc tgtggcatca ttacaagtgt cctggcatgg gtaacagcca ttctggccac ttgtcctgaa tacgtgtgtt ataaacctca gatggaagac cagaaataca agtgtgcat tagcagaact ccttctctgc cagctgatga gacattcttg aagcatttct tgactttaaa atgaacatt tgggttcttg tcttcccc attattttt acatttctct atgtgcaaat gagaaaaaca ctaaggttca gggagcagag gtatagcctt ttcaagcttg tttttgcaat aatggtagtc ttcctctga tgtggcgcc ctacaatatt gcatttttcc tgtccactt caaagaacac ttctccctga gtgactgcaa gagcagctac aatctggaca aaagtgttca catcactaaa ctcactgcca ccaccactg ctgcatcaac cctctcctgt atcggttct tgatgggaca tttagcaaat acctctgccg ctgtttccat ctgcgtagta acacccact tcaacccagg gggcagctg cacaaggcac atcgagggaa gaacctgacc attccacga agtgtaaact agcatccacc aaatgcaaga agaataaaca tggattttca tctttctgca ttatttctat taaatttct acacatttct atacaaaatc ggatacagga agaaaaggga gaggtgagct aacatttct aagcactgaa ttgtctcag gcacctgca aggtcttcta caaacgtgag ctctctgcc tctaccact tgtccatagt gtggatagga ctagtctcat ttctctgaga agaaaactaa ggcgcggaaa ttgtcttaag atcacataac taggaagtgg cagaactgat tctccagccc tggtagcatt tgctcagagc ctacgcttgg tccagaacat caaactccaa accctgggga caaacgacat gaaataatg tattttaaaa catct </p>	Homo sapiens
354	6363	Chemokine (C-C motif) Receptor- like 2 (CCRL2)	NP_003956.1	<p> YDAQALSAQL VPSLCSAVFV IGVLDNLLV P LILVKYGLK RVENIYLNL AVSNLCFLT LPFWAHAGGD PMCKILIGLY FVGLYSETFF NCLLTQVRYL VFLHKGNFS ARRVPCGII TSVLAWVTAI LATLPEYVY KPQMEDQKYK CAFSRTPFLP ADETFWKHL TLKMNISVLV LPLFIFFLY VQMRKTLRFR EQRYSLFKLV FAIMVFLIM WAPYNIAFFL STFKEHFSLS DCKSSYNLDK SVHITKLIAT THCCINPLLY AFLDGTFSKY LCRCFHLRSN TPLQPRGQSA QGTSREEPDH STEV </p>	Homo sapiens
355	6446	Pael Receptor (GPR37)	NM_005302	<p> atgcgagccc cgggcgcgt tctgcgcgc atgtcgcgc tactgcttct gctactgctc A aagtgctctg cctctctgc cctgcgcgt gccctcgcg ccagaaacga aacttgctctg gggagagct gtgcacctac agtgatccag gcgcgcgcg gggacgcctg gggaccggga aattctgcaa gagacttct gcgagcccg gcacccagg aggagcagg ggcagcgttt cttgccggac cctctggga cctgcgcgc gccccggcc gtgacccggc tgcaggcaga gggcccagg cgtcggcag cggaccccc ggacctcaa ccaggccacc tggccccctg agtggaagag gtgctcgggg tcaggagcct tctgaaact tggggagagg gaacccacg </p>	Homo sapiens

356	6446	Pael Receptor (GPR37)	NP_005293.1	<p>gcctccagc tcttcttca gatctcagag gaggaagaga aggttcccag aggcgtggc atttcgggc gtaccagga gcagagtgtg aagacagtcc ccggagccag cgatctttt tactggccaa ggagagccgg gaaactccag ggttcccacc aagacccct gtccaagacg gccaatggac tggcggggca cgaagggtgg acaattgcac tcccggggcg ggcgctggcc cagaatggat ccttgggtga aggaatccat gagcctgggg gtccccgcg gggaacagc acgaaccggc gtgtgagact gaagaacccc ttctaccgc tgaccagga gtccatgga gcctacggc tcattgtct gcctgtgtg ccacaactac tacatgcgga ccggcatcat tggcaacctg gcggtgatgt gcatcgtgtg ccaacactac tacatgcgga gcatctcaa ctccctcttg gccaacctgg ccttctgga cttctctac gctgtggag gacttctct gcttccgct ggtcatcttc cacgagctga ccaagaagt gctgtggag gacttctct gcaagatcgt gccctatata gaggtcgctt ctctggagt caccacctc accttatgt ctctgtgat agaccgcttc cgtgctgcca ccaacgtaca gatgtactac gaaatgatcg aaactgttc ctcaacaact gccaacctg ctgttatag ggtggagct ctattgttag cacttccaga agttgttctc cgccagctga gcaaggagga ttgggggtt agtggccgag ctccggcaga aggtgcatt attaagatct ctctgattt accagacac atctatgttc tagccctcac ctacgacagt gcgagactgt ggtggtattt tggctgttac tttgtttgc ccacgcttt caccatcac tgctctctag tgactgcgag gaaatccgc aaagcagaga aagcctgtac ccgagggaa aaacggcaga ttcaactaga gactcagatg aactgtacag tagtggcact gaccatttta tatggatttt gcattattcc tgaataatc tgcaacattg ttactgccta catggctaca gggtttcac agcagacaat ggacctctt aatctatcga gccagtctct ttgttctt aagtcctgtg tcacctagt cctcttttc tgtctctgca aaccttcag tcgggccttc atggagctgt gctgctgtg ctgtgaggaa tgcattcaga agtcttcaac ggtgaccagt gatgacaatg acaacagta caccacggaa ctgaaactct cgcctttcag taccatacgc cgtgaaatgt ccactttgc ttctgtcga actcattgct ga</p>	Homo sapiens
357	6536	Putative Neurotransmi tter Receptor (PNR)	NM_003967	<p>atgagagctg tcttctacca aggtgctgaa gagcaccctg cggcattctg ctaccaggtg A aatgggtctt ccccaggac agtacatact ctgggcatcc agttggtcat ctacctgacc tgtgcagcag gcatgctgat tatcgtgcta gggaatgtat ttgtggcatt tgctgtgctc tacttcaag cgcttcacac gccaccaac ttctgtgctg tctccctggc cctggctgac atgtttctgg gtctgctggt gctgccccctc agcaccattc gctcagtgga gagctgctgg ttcttcgggg acttctctctg ccgctctgac acctacctg acacctctt ctgctcacc</p>	Homo sapiens

358	6536	Putative Neurotransmitter Receptor (PNR)	NP_003958.1	<p> tccatcttcc atctctgttt catttccatt gaccgccact gtgccatctg tgacccccctg ctctatccct ccaagttcac agtgagggtg gctctcaggt acatcctggc aggatggggg gtgcccgcag catacacttc gttattcttc tacacagatg tggtagagac aaggctcagc cagtggctgg aagagatgcc ttgtgtgggc agttgccagc tgctgctcaa taaattttgg ggctgggttaa acttcccttt gtctttgtc cctgctcaca ttatgatcag cttgtatgtg aagatctttg tggttgctac gagacaggct cagcagatta ccacattgag caaagccctg gctggggctg ccaagcatga gagaaaagct gccaagacc ttggcattgt tgtgggcata tacctcttgt gctggctgcc cttcaccata gacacgatgg tcgacagcct ccttcacttt atcacacccc cactggtctt tgacatcttt atctggtttg cttacttcaa ctcagcctgc aaccccatca tctatgtctt ttctaccag tggtttcgga aggcactgaa actcacactg agccagaagg tcttctcacc gcagacacgc actgttgatt tgtaccaaga atga MRAVFIIQGA EHPAAFCYQV NGSCPRTVHT LGIQLVIYLT CAAGMLIIVL GNVFVAFVS P YFKALHTPTN FLLLSLALAD MFLGLLVLP STIRSVESCW FFGDFLCRLH TYLDTLFLCLT SIFHLCFISI DRHCAICDPL LYPSTFTVRV ALRYILAGWG VPAAYTSLFL YTDVVETRLR QWLEEMPCVG SCQLLNKFW GWLNFPLFFV PCLIMISLV KIFWATRQA QQITTLKSLS AGAAKHERKA AKTLGIVVGI YLLCWLPTI DTMDVSLHF ITPPLVFDIF IWFAYFNSAC NPIIYVFSYQ WFRKALKLTL SQKVFSPQTR TVDLYQE </p>	Homo sapiens
359	6777	G Protein- Coupled Receptor TM7SF1	NM_003272	<p> cgccgcgatg cgcggagacc cccgcggggg cggcggggc cgtgagcccc gatgaggccc A gagcgtcccc ggcgcgcggg cagcgcccc gcgccgatgg agacccccgc gtgggaccca gcccgaacag actcgtcgc gccacgctg acccgcgcg tgcgccctca cgtgaagcctt ggcctcacg tctgtacac cgtgttctac gcgtgctct tcgtgttcat ctacgtgcag ctctggctgg tgctgcgtta cgcgcacaa cggtcagct accagagcgt ctctctctt ctctgcctct tctgggcctc cctgcggacc gtcctctct ccttctact caaagacttc gtggcgggca attcgtcag cccctcgtc ttctggctgc tctactgct cctgtgtgctc ctgcagtttt tcacctcac gctgatgaac ttgtacttca cgcaggtgat tttcaaaagc aagtcacaaat attctccaga attactcaa taccgggtgc cctctacct ggcctccctc ttcatcagcc ttgttttctt gttggtgaat ttaacctgtg ctgtgctggt aaagacggga aattgggaga ggaaggttat cgtctctgtg cgaagtggcca ttaatgacac gctcttcgtg ctgtgtgcgg tctctctctc catctgtctc tacaaaatct ctaagatgct cttagccaac attacttgg agtccaaagg ctcctccgtg tgtcaagtga ctgccatcg tgtcacccgtg atactgctt acacctctg ggcctgctac aacctgttca tctgtctatt tctcagaac aagagcgtcc attcctttga ttatgactgg tacaatgtat cagaccaggc agatttgaag aatcagctgg gagatgctgg atacgtatta ttggagtggt tgttatttgt ttgggaactc ttacctacca ccttagtgt ttatttcttc cgagttagaa atcctacaaa ggaacctacc aacctggaa tggccccag ccatggattc agtcccagat cttatttctt tgacaacct cgaagatatg acagtatga tgaccttgc ttgaaacatt cccctcaggc acttcaggga ggttttgctc cagattacta tgattgggga caacaaacta acagcttctt ggcacaaagca ggaactttgc aagactcaac ttgtgctctt gacaaaccaa gcttgggta gcatcagtta acagttttat ggacgattcc tcagatgaaa agcttcagaa aagcatagt acagctgaat ttttagggca ctttctcta agaaatagaa cttgattttt atttgttaca ggtttccaat ggcccatag gaataagcaa taatgtagac tgataaaccc ttatttagt actaaagagg </p>	Homo sapiens

360	G Protein-Coupled Receptor TM7SF1	6777	NP_003263.1	YVQLEWLVLR SHKPMSTPP WDPARNDSL PTLTPAVPPY VKLGLTVVYT VFVALLFVFI P	Homo sapiens
				PVCLQFFTLT LMNLFTQVI FKAKSKYSPE LLKYRLPLYL ASLFLSLVFL LVNLTCAVLV	
				KTGNWERKVI VSVRAINDT LFVLCVSL ICLYKISKMS LANIYLESKG SSVQCVTAIG	
				VTVILLYTSR ACYNLFILSF SQNKSVHSFD YDWNVSDQA DLKNQLGDAG YVLFGVVLFV	
				WELLPTTLV YFFVRNPTK DLTNPGMVPS HGFSRPSYFF DNPRRYDSDD DLAWNIAPOG	
				LQGFAPDXY DWGQQTNSFL AQAGTIQDST LDPDKPSLG	
				atggtatgag gtgccaagtc ctgcccctgccc aactctttgg cagctgcccga cgacaaactc A	
				agtggtgtcc aggggggacct cctgtgtggc atactgttgg ttgagttcct ggtggccgtg	
				gccagcaatg gcttggccct gtaccgtctc agcctcggga agcagcggc atggcacccc	
				gccgtgtgtc tctctgtcca gctggcagtc agcgacctgc tctgcgtctc gaogctgccc	
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				agcctcaacc gctaccctggg cctctgtgac cctctcttcg ccgaaagcca cctgcgaccc	
				aagcacgctt gggcctgtgag cgtgcccgc tgggtctctgg ccgcccgtct gggcatagccc	
				acactcagct tctcccacct gaagaggccg cagcaggggg cgggcaactg cagcgtggcc	
				aggccccagg cctgcataca gtgtctgggg acagcagacc acgggctggc ggcctacaga	
				gcgtatagcc tgggtctggc ggggttgggc tgcggcctgc cgtgtgtctc cagctggca	
				gcctacggcg ccctcgggcg ggcctgtcta cgcagcccg ccatgactgt ggcgagaaag	
				ctgcgtgtgg cagcgttgtt ggccagtgg gtggccctct acgcagctc ctatgtggcc	
				taccacatac tgcgggtgtc caactgtgat gctgcgggcg gctggagcac cgcctgcccc	
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				ccgtcagagc cccagtcgag tgagctgagc caatga	
				MDRGAKSCPA NFLAAADKL SGFGDFLMP ILVFEFLVAV ASNGLALYRF SIRQRPWHP P	
				AVVFSQVLAV SDLCLATLP PLAAYLPKP HWRYGEAACR LERFLFTCNL LGSVIFITCI	
				SLNRYLGIHV PFFARSHLR KHAWAVSAG WVLAALLAMP TLFSLHLKRP QQGAGNCSVA	
				RPEACIKCLG TADHGLAAY AYSLVLAGL CGLPLLLTLA AYGALGRAVL RSPGMTVAEK	
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361	Purinergic Receptor P2Y11	6853	NM_002566	atggtatgag gtgccaagtc ctgcccctgccc aactctttgg cagctgcccga cgacaaactc A	Homo sapiens
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				caggtgatgc ggggcctcat gcccctggcc ttctgtctcc acctctact ctacatggcc	
				gcagtgccca gcttgggctg ctgtgcgca cactgccccg gctacagggga cagctgggac	
				ccagaggacg ccaagagcac tggccaagcc ctgcccctca atggccacag cggcccctaaa	
				ccgtcagagc cccagtcgag tgagctgagc caatga	
				MDRGAKSCPA NFLAAADKL SGFGDFLMP ILVFEFLVAV ASNGLALYRF SIRQRPWHP P	
				AVVFSQVLAV SDLCLATLP PLAAYLPKP HWRYGEAACR LERFLFTCNL LGSVIFITCI	
				SLNRYLGIHV PFFARSHLR KHAWAVSAG WVLAALLAMP TLFSLHLKRP QQGAGNCSVA	
				RPEACIKCLG TADHGLAAY AYSLVLAGL CGLPLLLTLA AYGALGRAVL RSPGMTVAEK	
				LRVAALVASG VALYASSYVP YHIMRVLNDV ARRRWSTRCP SFADIAQATA ALEIGPYVGY	
362	Purinergic Receptor P2Y11	6853	NP_002557.1	atggtatgag gtgccaagtc ctgcccctgccc aactctttgg cagctgcccga cgacaaactc A	Homo sapiens
				agtggtgtcc aggggggacct cctgtgtggc atactgttgg ttgagttcct ggtggccgtg	
				gccagcaatg gcttggccct gtaccgtctc agcctcggga agcagcggc atggcacccc	
				gccgtgtgtc tctctgtcca gctggcagtc agcgacctgc tctgcgtctc gaogctgccc	
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				LRVAALVASG VALYASSYVP YHIMRVLNDV ARRRWSTRCP SFADIAQATA ALEIGPYVGY	

363	6921	G Protein- Coupled Receptor GPR39	NM_001508	QVMRGLMPIA FCVHPLLYMA AVPSLGCCCR HCPGYRDSWN PEDAKSTGQA LPLNATAAPK PSEPQSRRLS Q	atggcttcac ccagcctccc gggcagtgac tgcctccaaa tcattgatca cagtcatgtc A cccagatttg agtggtccac ctggatcaaa atcacccctta ttctggtgta cctgatcatc ttcgtgatgg gcttcttggg gaacagcgc accattcggg tcaccagggt ctgcagaag aaaggatact tgcagaagga ggtgacagac cacatggtga ttttggtctg ctgcgacatc ttggtgtccc tcactggcat gcccattgag tttacagca tcatctgaa tccctgacc acgtccagct acaccctgtc ctgcaagctg cacactttcc tcttcgaggc ctgcagctac gtacgctgc tgcacgtgct gacactcagc tttagcgct acatcgccat ctgtcacccc ttcaggatca aggtgtgtc gggaccttgc caggtgaagc tgcgtattgg ctctgtctgg gtcacctcgg ccttggtggc actgcccctg ctgtttgcca tgggtactga gtacccccg gtgaacgtgc ccagccaccg ggtctcact tgcaaccgtt ccagcacccg ccaccacgag cagcccgaga cctccaatat gtccatctgt accaaactct ccagccgctg gaccgtgttc cagtccagca tcttcggcgc ctctgtggtc tacctgtgg tctgtctctc cgtagccttc atgtgctgga acatgatgca ggtgctcatg aaaagccaga aggtctgct ggcggggggc acgcggcctc cgcagctgag gaagtcgag agcgaagaga gcagaccgc caggaggcag accatcatct tctgaggtc gattgtgtg acattggcg tatgtggat gcccaaccag attcggagga tcatggctgc ggcacaccc aagcacgact ggacgaggtc ctacttccgg gcgtacatga tctctctccc ctctcggag acgtttttct acctcagctc ggtcatcaac ccgtctctgt acacgtgtc ctgcagcag tttcggcggg ttctcgtgca ggtgctgtgc tgccgctgt cgtgcagca cgcaaacac gagaagcgc tgcggtaca tgcgactcc accaccgaca gcgccgctt tgtgcagcgc ccgtgtctct tgcgctccc gcgccagtcc tctgcaagga gaactgagaa gattttctta agcacttttc agagcagggc cgagccccag tctaagtccc agtcattgag tctgcagtc ctagagccca actcaggcgc gaaaccagcc aattctgctg cagagaatgg ttttcaggag catgaagttt ga MASPSLPGSD CSQIIDSHV PEFEVATWIK ITLILVYLII FVMGLLGNSA TIRVTQLQK P KGYLQKEVTD HNVSLACSDI LVFLIGMPME FYIIWNPLT TSSYTLSCKL HTFLFEACSY ATLLHVLTL FERYIAICHP FRYKAVSGPC QVKLLIGFW VTSALVALPL LFAMGTEYPL VNVPSHRGLT CNRSSTRHE QPETSNSMIC TNLSSRWTF QSSIFGAFW YLVVLLSVAF MCWNMQVLM KSQKSLAGG TRPQLRKSE SEESRTARRQ TIIFRLIVV TLAVCWMPNQ IRIRMAAKP KHDWTRSYER AYMLLPFSE TFFYLSVIN PLYTVSSQ FRRVFQVLC CRLSLQHANH EKRLRVHAHS TTDSARFVQR PLIFASRRQS SARTEKIFL STFQSEAEPO SKQSLSLES LEPNSGAKPA NSAAENGFOE HEV ggacaggtgc cccggagct tcccgctcgc gaagaccag acggctgcag gagccgggc A agcctcgggg tcagcggcac catgaacgtc tcgggtgctc caggggccgg gaacgcgagc cagcggggcg cgcgggggag ctggcacccc gaggcggtca tctgtcccc gctcttcgcg ctcatctcc tctggtggc cgtggggcaac acgtcgtgtc tggcggtgct gctgcgcgcg ggccagggcg tcagcactac caacctgtc atcttaacc tggcggtggc cgacctgtgt ttcatctgt gctgcgtgac cttccaggcc acctataca ccttcggacgc ctgggtgttc ggctcgtgc tgtcaaggc ggtgcacttc ctcatctcc tcaccatgca cgccagcagc ttcacgctgg ccgctgctc cctggacagg tatctggcca tccgctaccc gctgcactcc	Homo sapiens
364	6921	G Protein- Coupled Receptor GPR39	NP_001499.1			Homo sapiens
365	7221	Galanin Receptor GalR2	NM_003857			Homo sapiens

366	7221	Galanin Receptor GalR2	NP_003848.1	<p>cgcgagctgc gcacgcctcg aaacgcgctg gcagccatcg ggctcatctg ggggctgctg ctgctcttct ccgggccccta cctgagctac tacgcccaagt cgcagctggc caacctgacc gtgtgccatc ccgcgtggag cgccctcgc gcgcgcga tggacatctg caccttcgtc ttcagctacc tgcctctgt gctgttctc ggctgacct acgcgcgac cttgcgctac ctctggcg cgctgaccc ggtggccgcg ggctgggtg ccggcgcg caagcgcaag gtgacagca tgatctcat cgtggccgcg ctctctgctc tctgtggtat gcccaccac gcgtcatcc ttgtgcgtg gtgcggccag ttcccgctc gcgcgcgac ttatgcgtt cgcatctct cgcacctggt ctctacgccc aactcctcg tcaaccccat cgtttacgcy ctggctcca agcaactccg caaaggcttc cgcacgatc gcggggcct gctgggcccgt gcccaggcc gagcctcggg ccgtgtgctc gctgcgcgc ggggaccca cagtggcagc gtgtggagc gcgagtcacg cgacctgtg cacatgagc aggcggcggg ggccttcgt ccctgcccc gcgcttccca gccatgcac ctcgagccct gtcctggccc gtcctggcag ggcccaagg caggcgacag cctcctgacg gttgatgtg cctgaaagca cttagcgggc gcgctgggat gtcacagagt tggagtcatt gttggggac cgtggcgg</p>	<p>LRGQAVSTT P ASSFTLAASV NLTVCHPAWS KRKVTMILI VYALVSKHFR ALRPCPGASQ</p>	Homo sapiens
367	7246	Orexin Receptor 1	NM_001525	<p>ccctccctca ggaagtttga ggctgagacc cgaagaagacc tgggtgcaag cctccaggca A ccctgaaggc agtggtctga ggctggccc agctccctc ctctccctct gtagagccta ggatgcccc ctgctgcagc ggctcctgag ctcattggag cctcagccac ccagggggc cagatggggg tccccctgg cagcagagc cgcgtccctg tgcctccaga ctatgaagat gagtttctcc gctatctgt gcgtgattat ctgtacccaa aacagtatga gtgggtcctc atcgacgct atgtggctgt gttcgtcgt gccctgggtg gcaacacgct ggtctgcctg gccgtgtggc ggaaccacca catgaggaca gtcaccaact acttcattgt caacctgtcc ctggctgacg ttctggtgac tgctatctgc ctgcccggcca gcctgctggt ggacatcact gagtcctggc tgttcggcca tgcctctgc aaggtcatcc cctatctaca ggctgtgtcc gtgtcagtg cagtgctaac tctcagcttc atcgccctg accgctggta tgccatctgc caccactat tgttcaagag cacagcccgc cgggcccgtg gctccatcct gggcatctgg gctgtgtgc tggccatcat ggtgcccag gctgcagtea tggaaatgac cagtgtgctg cttgagctag ccaaccgcac acggtctctc tcagtctgtg atgaacgctg ggcagatgac ctctatccca agatctacca cagtgtctt tttattgtca cctacctggc ccactgggc ctcatggcca tggcctattt ccagatattc cgcaagctct ggggcggcca gatccccggc accacctcag cactggtgcg gaactggaag cgcctcctcag accagctggg ggacctggag cagggcctga gtggagagcc ccagcccgcg ggcgcgcct tcctggctga agtgaagcag atgctgtcac ggaggagac agccaagat ctgatgtgtg tgcgtgtgt cttcgccctc tgtacctgc ccatcagcgt cctcaatgtc cttaagaggg tgttcgggat gttccgcca gccagtgacc gcgaagctgt ctacgcctgc ttacacctt cccactggct ggtgtacgcc</p>	<p>ILTVDA WHPEAVIVPL FQATYITLDG WVFGSLCKA VHFLIFLTMH LSYRQSQLA LYLWRAVDP YALRILSHLV SYANSCVNPI DLHMSEAAG</p>	Homo sapiens

368	7246	Orexin Receptor 1	NP_001516.1	MEPSATPGAQ MGVPGRREP SPVPPDYDE FLRLWRDYL YPKQYEWVLI AAYVAVFVA P LVGNTLVCLA VWRNHMRIV TNYFIVNLSL ADVLVTACL PASLLVDITE SWLFHALCK VIPYLOAVSV SVAVLTLSEI ALDRWYAICH PLLFKSTARR ARGSSILGIWA VSLAIMVPOA AVMECSSVLP ELANRTRLES VCDERWADDL YPKIYHSCFF IVTYLAPLGL MAMAYFQIFR KLWGRQIPGT TSALVRNWKR PSDQLGDLEQ GLSGEPQPRG RAFLAEVKQM RARRKTAKML MVLVLLVFALC YLPISVLNVL KRVFGMFROA SDREAVYACE TFSHWLVYAN SAANPIIYNE LSGKFRQFK AAFSCCLPGL GPCGSLKAPS PRSSASHKSL SLQSRCSISK ISEHVVLTSV TTVLP	Homo sapiens
369	7247	Orexin Receptor 2	NM_001526	gggggggggg taattgagct tcagctgagc cgagcgtagc ttctctctcc tgggtgctcatt A gctgcagcct ccagtgccgg gtccttagtt cctcagctgc ctatctctcc ggtgcaacat cgctgtaaa gacagcaaa gacccgcaga agttgcccgg cagaagactc cggaggcatt ggctcagtaa cttttcacgt catcttctgc tcgggagccc ctcttagcct ctccgcgcag ccttccccc cgcaaatcac cagtgctcat ggggcaggcg gagaggagct tgcagcattg agcggaaccg gacttgagcc cgtgatgtcc ggcaccaaat tggagagact cccccctgt cgcaactggt catctgcttc ggagctgaat gaaactcaag agcccttttt aaaccccc gactatgac acgaggaatt cctgcggtac cgtggagg gaaactctga ccgaaaagaa tatgagtggg tctgtatgc cgggtacatc atcgtgttcg tcgtggctct cattgggaac gtcctgggtt gtgtggcagt gtggaagaac caccacatga ggacggtaac caactacttc atagtcaatc ttctctctgc tgatgtgctc gtgaccatca cctgccttcc agccacactg gtcgtggata tcactgagac ctggtttttt ggacagtccc tttgcaaat gattccttat ctacagacgg tgcggtgtc tgtgtctgtc ctacacatga gctgtatcgc ctbgatcgg tggtatgcaa tctgtcacc tttgatgttt aagagcacag caaagcgggc ccgtaacacg attgtcatca tctggattgt ctctgcatt ataattgatt ctcaggccat cgtcatggag tgcagcacg tgtccccagg cttagccaat aaacccacc tctttacggt tctgtatgag cgctgggtg gtgaaattta tcccaagatg taccacatct gttcttttct ggtgacatac atggcaccac tgtgtctcat ggtgttgct tatctgcaa tatctcgaa actctggtgt cgacagatcc ctggaacatc atctgtagt cagagaaaat ggaagcccc gtagcctgtt tcacagctc gagggccagg acagccaag agtccccgga tgatggtgtt ggcggctgaa ataaagcaga tccgagccag aagaaaaa ca ctcaatgtgc taaagagagt atttgggagt tttgcaattt gctatctacc aattagcatc ctcaatgtgc taaagagagt atttgggagt tttgccata ctgaagacag agagactgtg tatgcctgtt ttacctttc acactggctt gtatatgcca atagtgtgc gaatccaatt atttataatt ttctcagtg aaaatttca gaggaattta aagctgcgtt ttctgtctgt tgccttgag ttaccatcg ccaggaggat cggctcacca ggggacgaac tagcacagag agcgggaagt ccttgaccac tcaaatcagc	Homo sapiens

370	7247	Orexin Receptor 2	NP_001517.1	<p> aactttgata acatatcaaa actttctgag caagttgtgc tcactagcat aagcacactc ccagcagcca atggagcagg accacttcaa aactggtaga atattatttc atatgacaag gatacctgag taaaactatc ctttttataaa tcaactgggaa cagaaaatttt attatcctat gatgtgaagc taaaattact tgtggatctt tttttttttt aatctattgc tctttggaaa taaaaaaaa gtcagtttaa aatgaaaaa aaaaaaaa aaa MSGTKLEDSP PCRNWSSASE INETQEPFLN PTDYDDEEFL RYLMREYLHP KEYEWVLIAG P YIIVFVALI GNVLCVAVW KNHMRTVTN YFIVNLSLAD VLVITITCLPA TLVVDITETW FFGQSLCKVI PYLQTVSVSV SVLTLSLAL DRWYAICHL MFKSTAKRAR NSIVIWIWS CIIMIPQAIW MECSTVFPGL ANKTTLETV C DERWGGEIYP KMYHICFFLV TYMAPLCLMV LAYLQIFRKL WCRQIPGTSS VVQRWKPLQ PVSQPRGPQ PTKSRMSAVA AEIKQIRARR KTARMLMVVL LVFAICYLPI SILNVLKRVF GMFAHTEDRE TVYAWFTFSH WLWYANSAAN PIIYNFLSGK FREEFKAES CCCLGVHHRQ EDRLTRGRTS TESRKSLLTQ ISNFDNISKL SEQVLTSS TLPANGAGP IQNW ccagctgata ttccagccca cagcaatgga gccacatgac tctctccaca tggactctga A gttccgatac actctcttcc cgattgttta cagcatcacc tttgtgctcg gggctattgc taatggctac actctgtggtg tctttgccc cctgtaccct tgcaagaaat tcaatgagat aaagatcttc atggtgaacc tcaccatggc ggacatgctc tctttgatca ccttgccact ttggattgtc tactacaaaa accagggcaa ctggatactc cccaaattcc tgtgcaacgt ggctggctgc cttttcttca tcaaacacta ctgctctgtg gcttctctgg gctgcatcac ttataaccgc ttccaggcag taactggcc catcaagact gctcaggcca acaccgcaa gcgtggcacc tctttgtctt tggctatctg ggtggccatt gtggagctg catctactt cctcatcctg gactctacca acacagtgc cgacagtgc ggtcaggca acgtcactcg ctgctttgag cattacgaga agggcagcgt gccagtcctc atcatccaca tcttcatcgt gttcagcttc tctctggtct tctcatcat cctctctgc aacctggtca tcatcctgac cttgctcatg cagccggtgc agcagcagcg caacgtgaa gtcaagcgc gggcgctgtg gatgggtgc acggtcttgg cgggttctcat catctgcttc gtgcccacc acgtggtgca gtgcccctgg accctgtcg agctgggctt ccaggacagc aaattccacc aggccattaa tgatgcaat caggtcacc tctgctctct tagcaccaac tgtgtcttag acctgttat ctactgttc ctcaccaaga agttccgcaa gcacctcacc gaaaagttct acagcatgcg cagtagccgg aaatgctccc gggccaccac ggatacggtc actgaagtgg ttgtgccatt caaccagat cctggcaatt cctcaaaa ttagtcttg cttc MEPHDSSHMD SEFRYTLFPI VYSIIFVLGV IANGYVLWVF ARLYPCKKEN EIKIFMNLTP P MADMLFLITL PLWIVYYQNG GNWILPKFLC NVAGCLFFIN TYCSVAFLGV ITYNRFQAVT RPIKTAQANT RKRGISLSLV IWVAIVGAAS YFLILDSTNT VPDGAGSGNV TRCFEHEYKRG SVPVLIHIF IVFSFLLVFL IILFCNLVII RLLMQPVQQ QRNAEVKRRR LMWVCTVLAV FLICFVPHV VQLPWTLAEL GFQDSKFHQA INDAHQVTLIC LLSTNCVLDL VIYCFLTKE RKHLTEKFYS MRSSRKCSRA TTDVTVEVV PFNQIPGNSL KN tgggggcgct cctctctgct cccgcccggc tgtcaagctg tgttctagcg gccgagggac A cgaggggggc taagaaaagg ggcgcccagc catgcagagg caaaaaggcg ctgctggaacg gggtccccct cgccagtgtc gaggcaggag gtcggagcca caagtgggg gctggggaagc aggacccagc acgggcgtct tggcaggcg cggggcgag ggcaggctg ctgggggacgc </p>	Homo sapiens
371	8436	Platelet- Activating Factor Receptor	NM_000952	<p> ccagctgata ttccagccca cagcaatgga gccacatgac tctctccaca tggactctga A gttccgatac actctcttcc cgattgttta cagcatcacc tttgtgctcg gggctattgc taatggctac actctgtggtg tctttgccc cctgtaccct tgcaagaaat tcaatgagat aaagatcttc atggtgaacc tcaccatggc ggacatgctc tctttgatca ccttgccact ttggattgtc tactacaaaa accagggcaa ctggatactc cccaaattcc tgtgcaacgt ggctggctgc cttttcttca tcaaacacta ctgctctgtg gcttctctgg gctgcatcac ttataaccgc ttccaggcag taactggcc catcaagact gctcaggcca acaccgcaa gcgtggcacc tctttgtctt tggctatctg ggtggccatt gtggagctg catctactt cctcatcctg gactctacca acacagtgc cgacagtgc ggtcaggca acgtcactcg ctgctttgag cattacgaga agggcagcgt gccagtcctc atcatccaca tcttcatcgt gttcagcttc tctctggtct tctcatcat cctctctgc aacctggtca tcatcctgac cttgctcatg cagccggtgc agcagcagcg caacgtgaa gtcaagcgc gggcgctgtg gatgggtgc acggtcttgg cgggttctcat catctgcttc gtgcccacc acgtggtgca gtgcccctgg accctgtcg agctgggctt ccaggacagc aaattccacc aggccattaa tgatgcaat caggtcacc tctgctctct tagcaccaac tgtgtcttag acctgttat ctactgttc ctcaccaaga agttccgcaa gcacctcacc gaaaagttct acagcatgcg cagtagccgg aaatgctccc gggccaccac ggatacggtc actgaagtgg ttgtgccatt caaccagat cctggcaatt cctcaaaa ttagtcttg cttc MADMLFLITL PLWIVYYQNG GNWILPKFLC NVAGCLFFIN TYCSVAFLGV ITYNRFQAVT RPIKTAQANT RKRGISLSLV IWVAIVGAAS YFLILDSTNT VPDGAGSGNV TRCFEHEYKRG SVPVLIHIF IVFSFLLVFL IILFCNLVII RLLMQPVQQ QRNAEVKRRR LMWVCTVLAV FLICFVPHV VQLPWTLAEL GFQDSKFHQA INDAHQVTLIC LLSTNCVLDL VIYCFLTKE RKHLTEKFYS MRSSRKCSRA TTDVTVEVV PFNQIPGNSL KN tgggggcgct cctctctgct cccgcccggc tgtcaagctg tgttctagcg gccgagggac A cgaggggggc taagaaaagg ggcgcccagc catgcagagg caaaaaggcg ctgctggaacg gggtccccct cgccagtgtc gaggcaggag gtcggagcca caagtgggg gctggggaagc aggacccagc acgggcgtct tggcaggcg cggggcgag ggcaggctg ctgggggacgc </p>	Homo sapiens
372	8436	Platelet- Activating Factor Receptor	NP_000943.1	<p> ccagctgata ttccagccca cagcaatgga gccacatgac tctctccaca tggactctga A gttccgatac actctcttcc cgattgttta cagcatcacc tttgtgctcg gggctattgc taatggctac actctgtggtg tctttgccc cctgtaccct tgcaagaaat tcaatgagat aaagatcttc atggtgaacc tcaccatggc ggacatgctc tctttgatca ccttgccact ttggattgtc tactacaaaa accagggcaa ctggatactc cccaaattcc tgtgcaacgt ggctggctgc cttttcttca tcaaacacta ctgctctgtg gcttctctgg gctgcatcac ttataaccgc ttccaggcag taactggcc catcaagact gctcaggcca acaccgcaa gcgtggcacc tctttgtctt tggctatctg ggtggccatt gtggagctg catctactt cctcatcctg gactctacca acacagtgc cgacagtgc ggtcaggca acgtcactcg ctgctttgag cattacgaga agggcagcgt gccagtcctc atcatccaca tcttcatcgt gttcagcttc tctctggtct tctcatcat cctctctgc aacctggtca tcatcctgac cttgctcatg cagccggtgc agcagcagcg caacgtgaa gtcaagcgc gggcgctgtg gatgggtgc acggtcttgg cgggttctcat catctgcttc gtgcccacc acgtggtgca gtgcccctgg accctgtcg agctgggctt ccaggacagc aaattccacc aggccattaa tgatgcaat caggtcacc tctgctctct tagcaccaac tgtgtcttag acctgttat ctactgttc ctcaccaaga agttccgcaa gcacctcacc gaaaagttct acagcatgcg cagtagccgg aaatgctccc gggccaccac ggatacggtc actgaagtgg ttgtgccatt caaccagat cctggcaatt cctcaaaa ttagtcttg cttc MEPHDSSHMD SEFRYTLFPI VYSIIFVLGV IANGYVLWVF ARLYPCKKEN EIKIFMNLTP P MADMLFLITL PLWIVYYQNG GNWILPKFLC NVAGCLFFIN TYCSVAFLGV ITYNRFQAVT RPIKTAQANT RKRGISLSLV IWVAIVGAAS YFLILDSTNT VPDGAGSGNV TRCFEHEYKRG SVPVLIHIF IVFSFLLVFL IILFCNLVII RLLMQPVQQ QRNAEVKRRR LMWVCTVLAV FLICFVPHV VQLPWTLAEL GFQDSKFHQA INDAHQVTLIC LLSTNCVLDL VIYCFLTKE RKHLTEKFYS MRSSRKCSRA TTDVTVEVV PFNQIPGNSL KN tgggggcgct cctctctgct cccgcccggc tgtcaagctg tgttctagcg gccgagggac A cgaggggggc taagaaaagg ggcgcccagc catgcagagg caaaaaggcg ctgctggaacg gggtccccct cgccagtgtc gaggcaggag gtcggagcca caagtgggg gctggggaagc aggacccagc acgggcgtct tggcaggcg cggggcgag ggcaggctg ctgggggacgc </p>	Homo sapiens
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374	8509	G Protein-Coupled Receptor Ls8509	NP_009154.1	<p> taccatgt gcactttctg aggatgcctc acttccctgg gctctgcaga gaacacacag agagaagact ttcagagctc acagagagag gtagcagag cactctaagg gaattc MGHNGSWISP NASEPHNASG AEAAGVNSA LGFGEAQLY RQFTTVQVV IFIGSLLGNE P MVLWSTCRRT VFKSVTNRFI KNLACSGICA SLVCVPFDII LSTSPHCWW IYTMFLCKVV KFLHKVCSV TILSFPAIAL DRYYSVLYPL ERKISDAKSR ELVMYIWAHA VVASVPVFAV TNVADIYATS TCTEWSNSL GHLVYLVYN ITTVIVPVV VFLILIRR ALSASQKKV IIAALRTPN TISIPYASQR EAEHLATLLS MVMFILCVH PYATLVVYT VLNVPDTSVF LLLTAVWLPK VLLANPVLF LTVNKSVRK LGTLVQLSH RYSRNVVST GSGMAEASLE PSIRGSOLL EMFHIGQQI FKPTDEDES EAKYIGSADF QAKEIFSTCL EGEQGPQFAP SAPLSTVDS VSQVAPAPV EPETFPDKYS LQFGFPEL PQWLSETRN SKRLLPLPLG NTPEELIQTK VPKVGRVERK MSRNKVSIF PKVDS </p>	Homo sapiens
375	8896	Neuropeptide Y Receptor Type 6 Pseudogene	NM_006173	<p> ttgataggga tagaaacaca ttggctgct tctatagtta acaagatgct gtacattcc A ttgcctcact agctctgaag actatactag cgggacaaaag aaagcacctg agatgagctg agaggagggt aaaggtacac agagatcccc ttgatatttg ttctatgtcc tctcaggggc tttgctacca ctagagaatt atccatatta agaacttgca ttgatattct gggttctgtt tcatttttta gggctcgaag agcacgctca agtcattcac atgtttccat caaatacaga cacagatcag ggaagattaa accctactaa ttctcgtcg gatgcctcac acaagggtgc cttccaagaa ctaatggcca aaatatccac ccacaacaca aataagctta gaaaatctct tcttacaatc ctgacacaaat ggaagtcttc ctaaaccacc cagcatctaa tacaaccagc acaaagaaca. acaactcgcc atttttttac tttagtctct gtcaacctcc tctccagct ttactcctat tatgcatagc ctatactgtg gtcttaattg tggcctttt tggaaacctc tctctcatca tcatcatctt taagaagcag agaaaagctc agaatcttcac cagcatatg attgccaatc tctccctctc tgataccttg gtgtgtgtca agtatcttc ttttactatc atctacactc tgatggacca ctggatatt ttggatacca ttgcagact cacatcctat gtgcagagtg tctcaatctc tgtgtccata tctcacttg tattcactgc tgtcgaaaga tatcagctaa ttgtgaacc cgtggctgg aagcccagtg tgactcatgc ctactggggc atcacactga ttggctgtt tccctctctg ctgtctattc ccttctctt gtcctaccac ctcactgatg agccctctc caacctctc ctccccactg accctacac ccaccaggtg gcctgtgtgg agaactggcc ctccaaaaag gaccggctgc tcttcaccac ctccctttt ctgctgcagt atttcttcc tctaggcttc atcctcatct gctacttgaa gattgttatt tgcctccgca ggagaaatgc aaaggtagat aagaagaagg aaaaatgagg ccggctcaat gagaaagaaga ggatcaaac aatgttgatt tccatcgttg tgacctttg agcctgctgg ctgccccgaa tatcttcaat gtcacttttg actggtatca tgaggtgctg atgagctgcc accacgacct ggtatttgta gttggccact tggttgctat ggtttccaca tgtataaacc ctctctttta tggctttctc acaaaaaat tccaaaagga cctggtagtg cttattcacc actgctgggtg ctacacact caggaagaat gtgaaaaat tgccatctcc actatgcaca cagactccaa gaggtcttta agattggctc gtataacaac aggtatatga aaattgataa tgctgaagct ctcttgaaat gggagctgga caggtaatgg tgggaatagg gcaagatgca gaaagaaga accagaacca aaatagcaa cttataccc acttttctt taggctaaga ctgctgtct catatgtcta tccaacacac cctccaacat acacgaacac acataccacc ccttttctt taagaaaaata actctaataa ttcaaacac ctgcccgcga tcattgtgg </p>	Homo sapiens

376	8896	Neuropeptide Y Receptor Type 6 Pseudogene	NP_006164.1	caagaatga gaatgagaaa gcagagagag aggcaaacag cagtgatggc tggggaacaa tgttcacaga tacttttatt caatggaata tctacaaaag ttatgactaa tgatagcct agtaaaaaca ctgctatacc tccttagcac tgagaat mevslnhpas nttstknns affyescop pspallllci aytvvlivgl fgnslslili P fkkrkagnf tsilianlsl sdtlvcvml hftliytimd hwifgdtmcr ltsyvqsvsi svsifslvft averqilvn prgwkpsvth aywgitiwl fslslspff lsyhltdpfi rnslsptdly thqvacvenw pskkdrllft tsflilqyfv plgfillcyl kiviclrrrn akvdkkkene grlnenkrin tmlisivvtf gacwlpriess msslgtimrc cattccacc ctctctctt taataagcag gagcgaataa gacaaattcc aaagaggatt A gttcagttca agggaatgaa gaattcagaa taattttggg aaatggattc caatatcggg aataagaata agctgaacag ttgacctgct ttgaagaac atactgtcca ttgtgtctaaa ataatctata acaaccaaac caatcaaat gaattcaaca ttattttccc aggttgaaaa tcattcagtc cactctaatt tctcagagaa gaatgcccag ctctctggct ttgaaaaatga tgattgtcat gtgctctggg ccattgatatt taccttagct ctgtcttatg gagctgtgat cattcttggt gtctctggaa acctggcctt gatcataatc atcttgaaac aaaaggagat gagaaatgtt accaacatcc tgattgtgaa cctttccttc tcagacttgc ttgttgccat catgtgtctc cctttacat ttgtctacac attaatggac cactgggtct ttgttgaggc gatgtgtaag ttgaatcctt ttgtgcaatg tgtttcaatc actgtgtcca tttctctct ggttctcatt gctgtggaac gacatcagct gataatcaac cctcgagggt ggagacaaa taatagacat gcttatgtag gtattgtgtg gatgtgggtc cttgtgtgg cttctctctt gcctttcttg atctaccaag taatgactga tgagcgttc caaaatgtaa cacttgatgc gtacaaagac aaatacgtgt gctttgatca atttccatga gactctcata ggttgcttta taccactctc ctcttggtgc tgcagtattt tgggtccactt gtgtttatat ttatttgcta ctcaagata tatatacgcc taataaggag aaacaacatg atggacaaga tgagagacaa taagtacagg tccagtgaaa ccaaaagaat caatatcatg ctgctctcca ttgtggtagc atttgagtc tgcgtgctcc ctcttaccat cttaacact gtgtttgatt ggaatcatca gatcattgtt acctgcaacc acaatctgtt attcctgctc tgccacctca cagcaatgat atccacttgt gtcaacccca tattttatgg gtctctgaac aaaaacttcc agagagactt gcagttcttc ttcaactttt gtgatttccg gtctcgggat gatgattatg aaacaatagc catgtccacg atgcacacag atgtttccaa aacttctttg aagcaagcaa gccagtcgc atttaaaaa atcaacaaca atgatgataa tgaaaaaatc tgaaactact tatagcctat ggtcccggtat gacatctgtt taaaaacaag cacaacctgc aacatacttt gattacctgt tctcccaagg aatgggggtg aaatcatttg aaaaactgacta agattttctt gcttgcttt ttactgcttt tgttgtagtt gtcataatta catttggaac aaaaaggtg ggccttggg tctctgggaa atagttttga ccagacatct ttgaagtgtc ttgttgaaat ttatgcatat aatataaaga cttttatct gctactattg gaatgaaatt tctttaaagt attacgatgc gctgacttca gaagtacctg ccattccaata cgggtcattag attgggtcat cttgataga ttagattaga tttagattgtc aacagattgg gccatcctta ctttatgata ggcatcattt tagtgtgtta caatagtaac agtatgcaaa agcagcattc aggagccgaa agatagcttt gaagtcattc agaagtgggt tgaggtttct gttttttggt ggtttttggt tgtttttttt tttttcacc ttaaggggagg ctttcatttc ctcccagactt attgtcactt aaatcaaat	Homo sapiens
377	9421	Neuropeptide Y Receptor Type 1	nm_000909	caagaatga gaatgagaaa gcagagagag aggcaaacag cagtgatggc tggggaacaa tgttcacaga tacttttatt caatggaata tctacaaaag ttatgactaa tgatagcct agtaaaaaca ctgctatacc tccttagcac tgagaat mevslnhpas nttstknns affyescop pspallllci aytvvlivgl fgnslslili P fkkrkagnf tsilianlsl sdtlvcvml hftliytimd hwifgdtmcr ltsyvqsvsi svsifslvft averqilvn prgwkpsvth aywgitiwl fslslspff lsyhltdpfi rnslsptdly thqvacvenw pskkdrllft tsflilqyfv plgfillcyl kiviclrrrn akvdkkkene grlnenkrin tmlisivvtf gacwlpriess msslgtimrc cattccacc ctctctctt taataagcag gagcgaataa gacaaattcc aaagaggatt A gttcagttca agggaatgaa gaattcagaa taattttggg aaatggattc caatatcggg aataagaata agctgaacag ttgacctgct ttgaagaac atactgtcca ttgtgtctaaa ataatctata acaaccaaac caatcaaat gaattcaaca ttattttccc aggttgaaaa tcattcagtc cactctaatt tctcagagaa gaatgcccag ctctctggct ttgaaaaatga tgattgtcat gtgctctggg ccattgatatt taccttagct ctgtcttatg gagctgtgat cattcttggt gtctctggaa acctggcctt gatcataatc atcttgaaac aaaaggagat gagaaatgtt accaacatcc tgattgtgaa cctttccttc tcagacttgc ttgttgccat catgtgtctc cctttacat ttgtctacac attaatggac cactgggtct ttgttgaggc gatgtgtaag ttgaatcctt ttgtgcaatg tgtttcaatc actgtgtcca tttctctct ggttctcatt gctgtggaac gacatcagct gataatcaac cctcgagggt ggagacaaa taatagacat gcttatgtag gtattgtgtg gatgtgggtc cttgtgtgg cttctctctt gcctttcttg atctaccaag taatgactga tgagcgttc caaaatgtaa cacttgatgc gtacaaagac aaatacgtgt gctttgatca atttccatga gactctcata ggttgcttta taccactctc ctcttggtgc tgcagtattt tgggtccactt gtgtttatat ttatttgcta ctcaagata tatatacgcc taataaggag aaacaacatg atggacaaga tgagagacaa taagtacagg tccagtgaaa ccaaaagaat caatatcatg ctgctctcca ttgtggtagc atttgagtc tgcgtgctcc ctcttaccat cttaacact gtgtttgatt ggaatcatca gatcattgtt acctgcaacc acaatctgtt attcctgctc tgccacctca cagcaatgat atccacttgt gtcaacccca tattttatgg gtctctgaac aaaaacttcc agagagactt gcagttcttc ttcaactttt gtgatttccg gtctcgggat gatgattatg aaacaatagc catgtccacg atgcacacag atgtttccaa aacttctttg aagcaagcaa gccagtcgc atttaaaaa atcaacaaca atgatgataa tgaaaaaatc tgaaactact tatagcctat ggtcccggtat gacatctgtt taaaaacaag cacaacctgc aacatacttt gattacctgt tctcccaagg aatgggggtg aaatcatttg aaaaactgacta agattttctt gcttgcttt ttactgcttt tgttgtagtt gtcataatta catttggaac aaaaaggtg ggccttggg tctctgggaa atagttttga ccagacatct ttgaagtgtc ttgttgaaat ttatgcatat aatataaaga cttttatct gctactattg gaatgaaatt tctttaaagt attacgatgc gctgacttca gaagtacctg ccattccaata cgggtcattag attgggtcat cttgataga ttagattaga tttagattgtc aacagattgg gccatcctta ctttatgata ggcatcattt tagtgtgtta caatagtaac agtatgcaaa agcagcattc aggagccgaa agatagcttt gaagtcattc agaagtgggt tgaggtttct gttttttggt ggtttttggt tgtttttttt tttttcacc ttaaggggagg ctttcatttc ctcccagactt attgtcactt aaatcaaat	Homo sapiens

Accession	Gene	Protein	Species
378	Neuropeptide Y Receptor Type 1	NP_000900.1	Homo sapiens
379	Corticotropin releasing factor Receptor 1	NM_004382	Homo sapiens

382	10457	Frizzled-2	NP_001457.1	MRPRSALPRL LLPLLLPAA GPAQFHGEKG ISIPDHGFCQ PISIPLCIDI AYNQTIMPNL P LGHTNQEDAG LEVHQFYPLV KVQCSPELRF FLCSMYAPVC TVLEQAIPPC RSICERARQG CEALMNKFGF QWPERLRCEH FPRHGAEQIC VQONHSEDGA PALLTTAPPP GLQPGAGGTP GGPGGGGAPP RYATLEHPEH CPRVLKVPY LSYKFLGERD CAAPCEPARP DGSMMFFSQEE TRFARLWLT WSVLCCASTF FTVTTYLVDM QRFRYPERPI IFLSGCYTMV SVAYIAGFVL QERVVCNERF SEDGYRTVVQ GTKKEGCTIL FMMLYFFSMA SSIWVILSL TWFLAAGMKW GHEAIEANSQ YFHAAWAVP AVKTITILAM QGIDGDLISG VCFVGLNSLD PLRGFVLAPL FVYLFIGTSF LLAGFVSLFR IRTIMKHDTG KTEKLERLMV RIGVFSVLYT VPATIVIACY FYEQAFREHW ERSWVSQCHK SLAIPCPAHY TPRMSPDFTV YMIKYLMTLI VGITSGFWIW SGKTLHSWRK FYTRLTNSRH GETTV	Homo sapiens
383	11968	Putative Leukocyte Platelet-Activating Factor Receptor (HUMNP11Y20)	NM_022571	atggccttac tgggcagcca gcactccggc gccccctccg cggccggccc acctggcggg A acttctcag cggccacggc ggcctgctc tccttcagca ccgtggcgac cgcggcgctg gggaacctga gcgacgcaag cggaggcggc acagctggc ctcccgggtg cggcggcctt ggcgggtccg ggcgacggg ggaggcggg gcggcggtga ggcggcgcgt aggcccgag gcggcgccgc tgcgtgcga cggagctgca gtggcgccc aggcgctcgt cctcctgctc atcttctgc tgcctagcct tggcaactgc gcggtgatgg ggggtattgt gaagcacgg cagctccgca ccgtcaccaa cgccttcac ctgtcgtgt cctatcggg tctgctcacg gcgtgctct gcctgccgc cgccttctg gacctctca ctcggcccg ggggtcggcg cctgcgtgc ccggggggc ctggcgggc ttctgcggc caagccgctt cttcagctcg tgcttcggca tgcgtacgc tcagcgtggc gctcactcgc ttggaccgtt actgcgtat cgtcgccgc cgcgggagaa gatcgccgc cgcgcgcgc tgcagctgct ggcggcgcc tgctgacgg ccctgggctt ctcctggcc tgggagctgc tcggggcgcc cggggaactc gcggcgggc agagcttcca cggctgcctc taccggacct ccccggacc cgcgcagctg ggcgccctc tcagcgtggg gctggtggtg gctgctacc tgcgtccctt cctgctcctc tgcttctgcc actaccacat ctgcaagacg gtgcgctgt cggacgtgcg cgtgcggccg gtgaacacct acgcgcgct gctgcgttct tcagcgaggt gcgcacggc accaccgtcc tcacatga	Homo sapiens
384	11968	Putative Leukocyte Platelet-Activating Factor Receptor (HUMNP11Y20)	NP_072093.1	MALLGSQHS APSAAGPPGG TSSAATAAVL SFSTVATAAL GNLSDASGG TAAAPGGGL P GGGAAREAG AAVRRPLGPE AAPLLSHGAA VARQALVLL IFLLSSLGNC AVMGVIVKHR QLRTVTNAFI LSLSLDLLT ALLCLPAFL DLFTPPGSA PALPAGPWRG FCRPSRFFSS CFGIVYAQRG AHLVGPLLY RRPPEKIGR RRALQLLAGA WLTALGFSLP WELLGAPREL AAGQSFHGCL YRTSPDPAQL GGFPSVGLV ACYLLPFLLI CFCHYHICKT VRLSDVRVRP VNTYARVLR SARCARRPPS SS	Homo sapiens
385	14198	Interleukin-8 Receptor B	nm_001557	cattcagaga cagaaggtgg atagacaaat ctccaccttc agactggtag gctcctccag A aagccatcag acaggaagat gtgaaatcc ccagcactca tcccagaatc actaagtggc acctgtcctg ggccaaagtc ccagacaga cctcattgtt cctctgtggg aatacctccc caggagggca tcttgattt ccccttgca acccaggta gaagtctcat cgtcaaggtt gtttcatctt ttttttctg tctaacagct ctgactacca cccaaccttg aggcacagtg aagacatcgg tggccactcc aataacagca ggtcacagct gctcttctgg aggtgtccta caggtgaaaa gccagcgac ccagtcagga tttaagtta cctcaaaaat ggaagatttt	Homo sapiens

aacatggaga gtgacagctt tgaagatttc tggaagggtg aagatcttag taattacagt
tacagctcta cctgcccc ttcttacta gatgcgccc catgtgaacc agaaccctg
gaaatcaaca agtatattgt ggtcattatc tatgccttgg tattcctgct gagcctgctg
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gccgcctcca agtggaatgg ctggattttt ggcacattcc tgtgcaagg tgtctcactc
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gcaaatggc ggatgctgtt acggatcttg cccagtcct ttggttcat cgtgccactg
ctgatcatgc tgttctgcta cggattcacc ctgctacgc tgtttaagg ccacatggg
cagaagcacc gggccatgog ggtcatctt gctgtcgtcc tcatcttct gctctgctg
ctgccctaca acctgttct gctggcagac acctcatga ggaaccagg gatccaggag
acctgtgagc gccgcaatca catcgaccgg gctctggatg ccaccgagat tctgggcac
cttcacagt gcccaacc cctcatctac gcttctatg gccagaagt tgcctatgga
ctcctcaaga ttctagctat acatggcttg atcagcaagg actccctgcc caaagacagc
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ggaggccag ttcttactag ttctccttgc atggtttaga aagcttgccc tgggtgctca
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gacttaatgc cactaaattg acacttaaaa atggtttaaa tggtaaat tgttatgtat
attttatatc aatttaaaaa aaacctgag ccccaaaagg tattttaac accaaggctg
attaaaccaa ggctagaacc acctgcctat atttttgtt aaatgatttc attcaatatc
tttttttaa taaaccattt ttacttgggt gtttat

386	14198	Interleukin- 8 Receptor B	NP_001548.1	MEDFNMSDS	FEDFWKGEDL	SNYSYSSTIP	PFLDDAAPCE	PESLEINKYF	VWIIYALVEL	P	Homo sapiens
				LSLLGNSLVM	LVILYSRVGR	SVDVYLLNL	ALADLLFALT	LPIWAASKVN	GWIFGTFLCK		
				VVSLLEKVN	YSGILLIACI	SVDRYLAIVH	ATRTLTKRY	LVKFICLSIW	GLSLLALPV		
				LLFRRTVYSS	NVSPACYEDM	GNNTANWRML	LRILPQSEGF	IVPLLIMLFC	YGFTLRTLFX		
				AHMQKHRAM	RVIFAVVLIF	LLCWLPLYNLV	LLADTLMRTO	VIQETCERN	HIDRALDATE		
				ILGILHSCLN	PLIYAFIQK	FRHGLLKILA	INGLISKDSL	PKDSRPSFVG	SSSGHTSTTL		
387	14641	Calcitonin Receptor	NM_001742	cagaattcca	ggacaaaagag	atcttcaaaa	atcaaaaadt	aggttcacat	ttacaagctt	A	Homo sapiens
				gtgcttgcca	ctgtttcttc	ttctaaatca	cccaaccaca	attcttcctg	cttttccaaa		
				tcaaacctat	ccaacaatag	agcccaagcc	attcttttac	gtcgtaggac	gaaagaagat		
				gatggatgca	cagtacaaa	gctatgaccg	aatgcagcag	ttaccgcac	accaaggaga		
				aggtcccat	tgcaatcgca	cctgggatgg	atggctgtgc	tgggatgaca	caccggctgg		
				agtattgtcc	tatcagttct	gccagatta	ttttccggat	tttgatccat	cagaaaaggt		
				tacaaaatac	tgatgatgaa	aagggtgttg	gtttaaacat	cctgaaaaa	atcgaacctg		
				gtccaaactat	actatgtgca	atgctttcac	tcctgagaaa	ctgaagaatg	catatgttct		
				gtactatttg	gctattgtgg	gtcattcttt	gtcaattttc	accctagtga	tttcctctgg		
				gattttcgtg	tttttcagga	gccttggtcg	ccaaagggtg	accctgcaca	agaacatgtt		
				tcttaacttac	attctgaatt	ctatgattat	catcatccac	ctggttgaag	tagtacccaa		
				tgagagagctc	gtcggaagg	accgggtgag	ctgcaagatt	ttgcattttt	tccaccagta		
				catgatggcc	tgcaactatt	tctggatgct	ctgtgaagg	atctatcttc	atacactcat		
				tgctgtggct	gtgtttactg	agaagcaacg	ctgtcggtgg	tattatctct	tggtctgggg		
				gttccccgtg	gtgccaaacca	ctatccatgc	tattaccagg	gccgtgtact	tcaatgacaa		
				ctgctgggtg	agtgtggaaa	cccatttgc	ttacataatc	catggacctg	tcatggcggc		
				acttgtgtgc	aatttcttct	tttgtctcaa	catgtctcgg	gtgcttgtga	ccaaaatgag		
				ggaaccccat	gaggcggaa	cccacatgta	cctgaaggct	gtgaaggcca	ccatgatcct		
				tgtgccccctg	ctgggaatcc	agtttgtcgt	ctttccctgg	agaccttcca	acaagatgct		
				tgggaaagata	tatgattacg	tgatgcactc	tctgattcat	ttccagggtc	tctttgttgc		
				gaccatctac	tgcttctgca	acaatgaggt	ccaaaccacc	gtgaagcgcc	aatgggcccc		
				attcaaaatt	cagtggaaac	agcgttgggg	gaggcgcccc	tccaaaccgt	ctgctcgccg		
				tgacagccgt	gctgcggagg	ctggcgacat	cccaattttac	atctgccatc	aggagctgag		
				gaatgaacca	gccaacaacc	aagcgagga	gagtgtgag	atcatccctt	tgaatatcat		
				agagcaagag	tcactgtctt	gaatgtgaag	gcaaacacag	catcgtgatc	actgagccat		
				catttccctgg	gagaaagacc	atgcatttaa	agtatttctc	atcctccacg	gaaccgaaca		
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				ttggtaactgt	tgctttggga	gacagtctag	gaatggagtc	tcccactgca	acttgtgaac		
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388	14641	Calcitonin Receptor	NP_001733.1	<p> aaacattaca tgctcagctt ggttttggac aagcctgtcc attgggcagg acctagctgt tgtaagaat tggctttaat gtggaatgta ttttgggtgc tgatgtttat aaactgagag gtcacaaga atctatcact aaaaattttt acaaaactgc caaaaatata attctttagt gaagacaata ctccctttaa agagagtttg ccactccct aaactccagg atttataaag caaatctact caaggtttat aaagcagatt acctctgtcc ctgggtgtgt atctagcagt aaaagataaa tttgtgtaat attgtaatt aagagctcc acataagtcc attaactgct ttccaccag cttcaagct taaaaagagc tcaggctttt ccaggaagat ccaggagggg taattagaaa tcaactgtgt gttgaccgt tgtttcttgt tattaccaaa caggaggggg aaaaattaac tgcctcaaat ttaaccataa atcaattcat gtttaacgtt tctcataaa atccagttat atattatcat atctctcttt acttccaggt ataagatttt tgaataatct gaataaaacca gtatcgttac tggcactga aattaatttg tgaatttga acagtaataca gagttaccat tattaattt gtatgctaaa tgaggaggtta cattgaaacc ctccaaatct ccagctcat ctatgtcata ttttgccact gccttcaga agtgatttag ttgtggaaag ataataaatt gatttgttat ggtacatat tttagcacc cagagaaaa taattatatt tctacagaga aaatgaattt gggatactaa agtagtttaa gtctcttta ctgaatgtaa gggggggagc gaaaagaagg tatttttcca atcacagtgt tatgtagtat tgtcttatt ttgtttacaa acatggaaaa cagagtattt ctggcagctg tggtaacaa gtgataatat attgctaaaa tattttagat gttattatgc taatatagta ggggttgaag aaacaaaaat agcttattat agaattgcac atagtctgc ccaaatatag tgaatgctt atgcttgtgt atatgtataa attaatacag agtacgttaa aagcaaaaag atgtatatgt gcataattt ctaaagaaat atattatca tcttttcatt c </p>	Homo sapiens
389	16041	C-C Chemokine Receptor 6	NM_004367	<p> MRFTTSRCL ALFLLNHPT PILPAFNSQT YPTIEPKPL YVGRKKKMD AQKCYDRMQ P QLPAYQGE GP YCNRTWDGWL CWDDTPAGVL SYQFCPDYFP DFDPSEKVTK YCDEKGVWFK HPENNRTWSN YTMCAFTPE KLNNAVLYY LAIVGHSLSI FTLVISLGIF VFRSLGCCQR VTLHKMFLT YILNSMIII HLVEVPNGE LVRRDPVSK ILHFFHQYNM ACNYFWMLE GIYHLTLIV AVTEKQRLR WYLLGWGFP LVPTTIHAT RAVYENDNCW LSVETHLLYI IHGPVMAALV VNFELNLIV RVLVTKMRET HEASHMYLK AVKATMILVP LLGIQFVFP WRPSNMGLK IYDVMHSLI HFQGFVATI YFCHQELRNE PANNQGEESA EIIPLNIEQ ESSA PSNRSARAAA AAEEAGDPI YICHQELRNE PANNQGEESA EIIPLNIEQ ESSA caaacgttcc caaatcttcc cagtcggctt gcagagactc cttgctcca ggagataacc A agaagctgca tcttattgac agatggtcat cacattggtg agctggagtc atcagattgt ggggcccgga gtgaggtga agggagtga tcagagcact gcctgagagt cacctctact ttcctgtac cgctgctgt gactgaagg ggctgaacca tacactcctt ttctacaac cagcttgcat ttttctgcc caaatgagc ggggaatcaa tgaatttcag cgatgttttc gactccagt aagattattt tgtgtcagc aatactcat atactcagtg tgattctgag atgttactgt gctccttga ggaggtcagg cagttctcca ggctatttgt accgattgct tactcctga tctgtgtctt tggcctcctg gggaatattc tgggtgtgat cacctttgct ttttataaga aggccaggtc tatgacagac gtctatctct tgaacatggc cattgcagac atcctctttg ttcttactct cccattctgg gcagtgagtc atgccactgg tgcgtgggtt ttcagcaatg ccacgtgcaa gttgctaaaa ggcattctatg ccatcaactt taactgcggg atgctgtctc tgacttgcat tagcatggac cgggtacatcg ccattgtaca ggcgactaag </p>	Homo sapiens

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Homo
sapiens

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SETADNDNAS SFTM

Homo
sapiens

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gcatctttct ctcccatgc aacacctct tctagttacc acggcaacc ctgcagctcc
tctgcttttg tctctgttc ctgtccagca ggggtctccc acaagtgct tttccaccc
caaaggggc tctcctttt tccactgca taactcttctt ccatcttact tgccttcta
tactttctca catgtggctc cccctgaatt ttgcttccct tgggagctca tcttttctgc
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398 17535 Gaba (b)
Receptor 1

NP_001461.1

398

catgtgagt catgtctttc ctattgcac acgtccatgt ttatccatgt actttccctg
tgtaccctcc atgtaccctg tgtactttct tccctaaat catggtattc ttctgacaga
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gagtgcttc cagtggatag ttgatgagaa tcttgaccaa aggaaggcac ccttgactgt
tgggatagac agatggacct atgggtggg agtggtgtc cctttcacac tgtgtgtgtc
cttggggaag gatctcccg aatctcaata aaccagtga cagtggtgact cggcaaaaa
aaaa

P

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399 17666 Glucagon-
Like Peptide
1 Receptor

NM_002062

399

A

Homo
sapiens

gaattccggg ttgtgcatc cactctgaa ccgctcgtgt gtggcctgtc ggaatgacat
cgccctcatc agtctccga cgcgttccc agtggeagc gatggcccag tctgaaactc
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gagcagctcc tgttctcta catcatctac acggtgggt acgactctc ctctctgct
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atccacctga acctgttgc atccttcac ctgcgagcat tgtccgtct catcaaggac
gcagccctga agtgatgta tagcacagcc gccacagc accagtgga tgggctcctc
tcctacactgg actctctgag ctgcccgcctg gtgttctgct tcatgcagta ctgtgtggcg

400	17666	Glucagon- Like Peptide 1 Receptor	NP_002053.1	gtggaaggc gtgtacctgt acacactgct ggccttctcg gtcttatctg agcaatggat cttcaggctc tacgtgagca taggctgggg tgttccccctg ctgtttgttg tccccgggg cattgtcaag tacctctatg aggacgagg ctgctggacc aggaaactcca acatgaacta ctggctcatt atccggctgc ccattctctt tgccattggg gtgaacttcc tcacttttgt tcgggtcatt tgcactgtgg tatccaaact gaaggccaat ctcatgtgca agacagacat caaatgcaga ctgtccaagt ccagctgac actcatcccc ctgctgggga ctcatgaggt catctttgcc tttgtgatg acgagcacgc ccgggggacc ctgcgcttca tcaagctgtt tacagagctc tccttccact ccttccagg gctgatggtg gccatattat actgctttgt caacaatgag gtccagctgg aatttcggaa gagctgggag cgctggcggc ttgagcactt gcacatccag agggacagca gcatgaagcc cctcaagtgt ccacacagca gcctgagcag tggagccacg gcgggacagca gcatgtacac agccacttgc caggcctcct gcagctgaga ctccagcgcc tgcctccctt ggggtccttg ctgcagccgg gtggccaatc cagcctcccc cacaataacc	400	18471	G Protein- Coupled Receptor LOC51210	NM_016372	gtggaaggc gtgtacctgt acacactgct ggccttctcg gtcttatctg agcaatggat cttcaggctc tacgtgagca taggctgggg tgttccccctg ctgtttgttg tccccgggg cattgtcaag tacctctatg aggacgagg ctgctggacc aggaaactcca acatgaacta ctggctcatt atccggctgc ccattctctt tgccattggg gtgaacttcc tcacttttgt tcgggtcatt tgcactgtgg tatccaaact gaaggccaat ctcatgtgca agacagacat caaatgcaga ctgtccaagt ccagctgac actcatcccc ctgctgggga ctcatgaggt catctttgcc tttgtgatg acgagcacgc ccgggggacc ctgcgcttca tcaagctgtt tacagagctc tccttccact ccttccagg gctgatggtg gccatattat actgctttgt caacaatgag gtccagctgg aatttcggaa gagctgggag cgctggcggc ttgagcactt gcacatccag agggacagca gcatgaagcc cctcaagtgt ccacacagca gcctgagcag tggagccacg gcgggacagca gcatgtacac agccacttgc caggcctcct gcagctgaga ctccagcgcc tgcctccctt ggggtccttg ctgcagccgg gtggccaatc cagcctcccc cacaataacc	Homo sapiens	Homo sapiens
401	18471	G Protein- Coupled Receptor LOC51210	NM_016372	gtggaaggc gtgtacctgt acacactgct ggccttctcg gtcttatctg agcaatggat cttcaggctc tacgtgagca taggctgggg tgttccccctg ctgtttgttg tccccgggg cattgtcaag tacctctatg aggacgagg ctgctggacc aggaaactcca acatgaacta ctggctcatt atccggctgc ccattctctt tgccattggg gtgaacttcc tcacttttgt tcgggtcatt tgcactgtgg tatccaaact gaaggccaat ctcatgtgca agacagacat caaatgcaga ctgtccaagt ccagctgac actcatcccc ctgctgggga ctcatgaggt catctttgcc tttgtgatg acgagcacgc ccgggggacc ctgcgcttca tcaagctgtt tacagagctc tccttccact ccttccagg gctgatggtg gccatattat actgctttgt caacaatgag gtccagctgg aatttcggaa gagctgggag cgctggcggc ttgagcactt gcacatccag agggacagca gcatgaagcc cctcaagtgt ccacacagca gcctgagcag tggagccacg gcgggacagca gcatgtacac agccacttgc caggcctcct gcagctgaga ctccagcgcc tgcctccctt ggggtccttg ctgcagccgg gtggccaatc cagcctcccc cacaataacc	401	18471	G Protein- Coupled Receptor LOC51210	NM_016372	gtggaaggc gtgtacctgt acacactgct ggccttctcg gtcttatctg agcaatggat cttcaggctc tacgtgagca taggctgggg tgttccccctg ctgtttgttg tccccgggg cattgtcaag tacctctatg aggacgagg ctgctggacc aggaaactcca acatgaacta ctggctcatt atccggctgc ccattctctt tgccattggg gtgaacttcc tcacttttgt tcgggtcatt tgcactgtgg tatccaaact gaaggccaat ctcatgtgca agacagacat caaatgcaga ctgtccaagt ccagctgac actcatcccc ctgctgggga ctcatgaggt catctttgcc tttgtgatg acgagcacgc ccgggggacc ctgcgcttca tcaagctgtt tacagagctc tccttccact ccttccagg gctgatggtg gccatattat actgctttgt caacaatgag gtccagctgg aatttcggaa gagctgggag cgctggcggc ttgagcactt gcacatccag agggacagca gcatgaagcc cctcaagtgt ccacacagca gcctgagcag tggagccacg gcgggacagca gcatgtacac agccacttgc caggcctcct gcagctgaga ctccagcgcc tgcctccctt ggggtccttg ctgcagccgg gtggccaatc cagcctcccc cacaataacc	Homo sapiens	Homo sapiens

402	18471	G Protein- Coupled Receptor LOC51210	NP_057456.1	MDTLEEV ^{TWA} NGSTALPP ^{PL} LLMKLPSARA KIRITSS ^{PIF} TRFFLLAIEL SVIILGLAFG EDFN ^{IYGHGG} RQFWLVSSCF LQGLGSVLLC FDIIEGLCCV TEEPDVHL ^{PQ} PYAVARREGL NSTDSERWKA INA	ccagatgtac acctacc ^{ca} g ^c ccta ^{gc} gt g ^t ggcc ^{cg} gc g ^g gagg ^{gc} ct g ^g agg ^{ct} gca ggg ^{gc} t ^{gc} tg g ^g gcct ^{cag} c tcgac ^{gt} ac agt ^{tc} gac ^{tc} t ^g ccg ^{gc} gg ^g gtg ^{gc} ctacc tggatgacat cgctt ^{ccat} g cct ^{tg} ccaca caacagcaca gacg ^c gagc gctggaag ^{gc} catcaat ^g cc t ^g agg ^{gc} gagc t ^g cgagg ^{gc} aggccagaga g ^g agccag ^{gc} ag ^g ccagag ^g tcccag ^{gc} gg aggag ^{gc} acca g ^g tcaag ^{gga} cg ^{tt} ct ^{gt} gg cgagt ^{ag} ccc t ^{gt} gt ^g ccc t ^{gt} tc ^{cc} ac atg ^{at} ct ^g g ag ^g cccc ^{acc} tcct ^g gg ^{gc} tccc ^{aat} ccc c ^{tt} tg ^{cat} c t ^{ct} g ^{ct} ca ct ^g ggg ^{acc} t ^{ct} cc ^{ct} cc ^{ac} ct ^g ct ct ^{ca} ta ^{tg} c t ^{ca} gtgacat g ^g ccag ^g ct t ^{ct} ct ^{cc} ag g ^g ccat ^g ctt ggcaag ^{gt} g gctgag ^g ca c ^{ct} ct ^{ct} ct ct ^g cac ^{ct} t g ^g cacgag ^g cag ^g ct ^g gc t ^{ct} cc ^{aat} g c ^{ct} ccat ^{cc} at ^{cc} cat ^g g t ^g ct ^{tt} g ^{gc} t ^{ct} ca ^{ag} c at ^{cc} ac ^{cat} g gtg ^{at} ggac tga ^{gt} gt ^{gt} atatt ^{ct} ct gat ^{ct} att ^{tt} ttaata ^{aaa} gga ^{aa} ggag caaaaa ^{aaa} aaaaaa ^{agt} tttg	Homo sapiens
403	19072	G Protein- Coupled Receptor Ls19072	LG100650	agtgatgagc ggcg ^{gc} t ^g cc tggcag ^{tg} ca g ^t ggg ^{ct} g ^{gc} t ^g gtat ^{gt} g g ^g gcct ^{ct} cc A ctg ^{ct} ggcca atg ^{ct} gg ^g catc ^{ct} cagc g ^t tg ^g gc ^{ca} agcaga ^{aa} g ^t gga ^{gc} ccc ttggag ^{tt} cc t ^g ctgt ^{gt} ac actc ^{gc} ggcc accaca ^{tg} taaat ^{gt} g ^{gc} c ^g tgc ^{cc} atc ggcac ^{ct} act ccgt ^{gt} g ^{ca} gctg ^{gc} ggc ^g cagc ^{gc} ccc ^g acttcgag ^{tg} gaatgag ^g gt ctctgcaag ^g tctt ^{ct} gt ^c cac ^{ct} ctac acc ^{ct} ca ^{cc} t ^g gccac ^{ct} g t ^{tt} ct ^{ct} gtc acctcc ^{ct} ct cctacc ^{ac} gc catgt ^{gat} g g ^t ctg ^{ct} g ^{gc} ctg ^{ca} act ^g ccg ^{gt} gagca tgtgaag ^{tt} c tggg ^{gt} ct ^{ct} ggg ^{gt} tt ^{ct} aa gcag ^{gc} gtga aa ^{ca} aa ^{ag} c atat ^{ct} g ^{gt} g tgccat ^{gc} cacaca ^g g tggcca ^{cc} t ^{gt} gg ^{ct} gc tgggag ^g gca ggcag ^{gc} tca ggag ^{gg} g ^{ct} g ctg ^{ta} ag ^{ct} g ctg ^g gg ^{gc} at acac ^g tag ^{ct} t ^g cat ^g gg ^{gt} agaca ^{aa} gc agcca ^{ata} ca gaat ^{gc} t ^g g aagag ^g gac ^g t ^{gt} gaca ^{at} g t ^{tc} acag ^{ta} t ct ^{ct} at ^g ca agga ^{ca} agg ccct ^g cc ^{ca} ctg ^g ct ^{gt} c catgac ^{ta} t atata ^{ct} g ^g g ^{gt} gt ^g gg ^{gt} gcct ^g g ^{gt} g t ^{gc} ggat ^{cc} ctacag ^{gt} cc ccagag ^{gc} ct ggggag ^g ccc t ^{gt} gg ^{gt} gac gccagat ^{ccc} tctg ^{tt} ccac c ^{ct} g ^{ct} cat g ^{cc} ag ^{gc} tga gcaat ^g ccaa gaagcag ^g cg gtgcacacag tcat ^g g ^{gt} at ctg ^g at ^{gt} g t ^{cc} ct ^{cat} cc t ^{gt} cgg ^{cc} ct c ^{gc} tc ^{gc} gtt ggctgga ^c g acacca ^g ga gcg ^{ct} t ^{ct} ac accca ^{tg} g ^{ct} accca ^{ct} tcac c ^{gt} gg ^{ct} gag atcg ^{gc} ct ^g g g ^{ct} tt ^g g ^{ct} g ctg ^{ct} t ^{ct} g t ^g ctg ^{gt} g ^g g ^{gc} gag ^c gt g ^{gc} cat ^g gg ^{gc} gtgat ^{ct} gca cagcca ^{tc} gc c ^{ct} ct ^{cc} ag acg ^{ct} g ^{gc} c ^g t ^g cag ^{gt} g ^g g ^{gc} ccag ^g cc gaccg ^{cc} gc c ^{ct} tcac ^{cg} gcccac ^{cat} c g ^t gg ^{tg} gag ^g acg ^{gc} ag ^g caagc ^g g ^{gc} tcctccat ^{cg} atg ^g ct ^{cg} ga gcccgc ^{aaa} acc ^{ct} ct ^g c agaccac ^g g ^g c ^{ct} gt ^g gac accat ^{agt} ct tcat ^{ct} acga ctg ^{cc} ct ^{cat} g g ^g ct ^{cc} ctg t ^g ctg ^{gt} g ^g t ^g cag ^{gc} gtc gggtagag ^g g ^c ctg ^{ct} ct gggacag ^{ccc} tggg ^{gc} t ^g ct cata ^{ct} ccag gcatcag ^{gt} g gtgag ^{tc} ct cagacc ^{ca} at c ^{ct} tt ^g at ^g at g ^g g ^{ct} tgatc atc ^g t ^{cc} ca t ^{tt} ccagat	Homo sapiens	

[illegible]

405	19501	Ls19072	G Protein- Coupled Receptor KIAA0758	AB018301	GSVANGVICT AIALFQTLAV QVGRQADRRRA FTVPTIVVED AQKRRSSID GSEPAKTSLQ TTGLVTTTIVE IVDCIMGFPV LVVSFSLRA DASAPWMALC VLWCSVAQAL LLPVFLWACD RYRADLKAVR EKCMLMAND EESDDG	gtgcaagaag aaaaatagatg ttatgcccac ccaaatatttg gcaaatgaag aaatgaaggt A gatgtgcgac aacaatcctg tatctttgaa ctgtgtcagc cagggtaaatg ttaattggag caaagttaga tggagcagg aagaaaaat aatatccca ggaacccctg agacagacat agattctagc tgcagcagat acaccctcaa gctctatgga acccagtgcc caagcgggtc gtctggaaca acagtcactc acacttgtga gtctatcagt gcctatggag ccagaggcag tgcaaacata aaagtacat tcattctctg ggccaatcta acaataccc cggaccacat ttctgtttct gagggacaaa acttttctat aaaaatgcac agtgatgtga gtaactatga tgagggtttat tggaaacactt ctgctggaat taaaatatat caaagatttt ataccacgag gaggtatcct gatggagcag aatcagtact gacagtcaag acctcgacca gggagtggaa tggaacctat cactgcata ttagatataa gaattcatat agtatgcaa ccaaagacgt cattgttcac ccgtgcctc taaagctgaa catccttggt gatcctttgg aagctactgt ttcatgcagt ggttcccat acatcaagt ctgcatacag gaggatggag actacaaagt tactttccat atgggttctt catccttcc tgctgcaaaa gaagttaaca aaaaacaagt gtgtacaaa cacaatttca atgcaagctc agtttcttgg agccatcta tgaagctgaa gtgtgtcac tttaaccaatg ctgctaataa ttcatgttgg agccatcta tgaagctgaa tctgttctt ggggaaaaa tcacatgcca ggaatccgta atagggtgctg gagagccggg gaaagtcac cagaagctat gccgttctc aaagcttcc agcagccctg agagtccat tggcgggacc atcactaca aatgtgtagg ctccagtggt gaggagaaga gaaatgactg catctctgcc ccaataaaca gtctgctcca gatggctaa gctttgatca agagccctc tcaggatgag atgctcccta catacctgaa ggatctttct attagcatag acaagcggg acatgaaatc agctcttct ctgggagctt gggagccatt attaacatcc ttgatctgct ctcaacagtt ccaacccaag taaattcaga aatgatgacg cactgctct ctacggttaa tgtcatcctt ggcaagcccg tcttgaacac ctggaaggtt ttacaacacg aatggacca tcagagttca cagctactac attcagtga aagatttcc caagcattac agtcaggaga tagcctcctt ttgtccttct ccaaaactaa tgtgcagatg agcagcacgg taatcaagtc cagccaccca gaaacctatc acagaggtt ttgtttccca tactttgacc tctggggcaa tgtgttcatt gacaagagct atctagaaa ctgacagtcg gattcgtcta ttgtcacca ggctttccca acttccaaag ccactcctgc tcaggatc caggaataa actttgcaga gagcttagtg atgacaacca ctgtcagcca caatacagct atgccattca ggatttcaat gacttttaag aacaatagcc cttcaggcgg cgaacggaag tgtgtcttct ggaacttcag gcttgccaac aacacagggg ggtgggacag cagtgggtgc tatgttgaag aaggtgatgg ggacaatgtc acctgtatct gtgaccactt acatctcca tccactcca tgtccctga ctccacagat cctagtctc tcctgggaat acctcctgat attatttctt atgttggggt gggcttttcc atcttgagct tggcagcctg tctagtgtg gaagctgtgg tgtggaaatc ggtgaccaag aatcggactt ctatatgcg ccacacctgc atagtgaata tcgctgcctc cctctgggtc gccaacactt ggttcattgt ggtcgtgccc atccaggaca atcgtacat actctgcaag acagcctgtg tggctgccac ctcttctc cacttctct acctcagcgt ctctctctgg atgctgacac tgggcctcat gctgttctat cgcttggtt tcatctgca	Homo sapiens
-----	-------	---------	---	----------	---	---	-----------------

406	19501	G Protein-Coupled Receptor KIAA0758	BAA34478.1	<p> tgaacaagc aggtccactc agaaagccat tgccttctgt cttggctatg gctgccact tgccatctcg gtcacacgc tgggagccac ccagcccg gaagtctata cgaggaagaa tgtctgttg ctaactggg aggaacacaa ggcctgctg gcttgcga tccagcact gatcattgtg gtgtgaaca taaccatcac tatttggtc atcacaaga tccagagcc ttccattgga gacaagccat gaaagcagga gaagagcagc ctgtttcaga tcagcaagag cattgggtc ctcacaccac tcttggcct cacttgggt ttgtgtctc cactgtgtt cccaggacc aacctgtgt tccatcatc atttgcac tccaatgtc tccagggatt attcatttta ctcttggat gcctctggga tctgaagtga caggaagctt tgcgaataa gtttcattg tcgagatgtt cttcacagca ctcaaatc aacatccctgg gttcatccac acctgtgtt tctatgatt ctccaatc aaggagatt acaatttgt ttgtaaaac aggaacgtat aatgtttcca cccagaagc aaccagctca tccctgaaa actcatccag tgcttcttcg ttgctcaact aagaacagga taatccaacc tacgtgacct cccggggaca gtggctgtgc ttttaaaag agatgcttgc aaagcaatgg ggaacgtgtt ctcggggcag gttccggga gcagatgcca aaagacttt ttcatagaga agagcttct tttgtaaag acagaataaa aataatgtt atgttctgt ttgttccct cccctcccc ttgtgtgata ccacatgtgt atagtattta agtgaactc aagccctcaa gcccactt ctctgtctat attgtaatat agaatttga agagacattt tcactttta cacattggg acaagataa gcttggatta aagtagtaag taaaaggcta ctaggaaat acttcagtga attctaagaa ggaaggagc aggaagga ggaagagc gaggaaaca gggagaaagg gaaaagaag aaaaagaga agatgaat aggaacaaat aaagacaaac aacattaaag gccatattgt aagatttcca tgttaatgat ctaataaat cactcagtc aacattgaga atttttttt taatggctca aaaaaggaa ctgaagcaa ctgaatggga atgaatactt tgggcagtat cttctgatg tcttcttagc taagaggagg aaaaaaggc tgaataataa gggaggaat tccttcata gaacgactc aagtgataa caatattat aagaatgaa tggaaggaaa tatgatctc ctgagactaa ctttgtatgt taaggtttga actaagtga tgcattgca gaggaagtat tataaagata tgtcattaga tccaagtgt gattaaattt ttatagtta tcagaaaagc cttatatatt agttgttcc acatttga agcaaaaaat atatatgga tataccctc aattgcaaaa ttgtatgt tgcactgaag acagaccctg tcatatatt aatggcttca agcaggtact tctctgtgca ttatagaata gattttaata atcttatagc attgtatatt attattgtg ttgtcactgt tattattatt gtggatactg gcccttgggtg tgttgcatag ctccctatgt attctctgt tccatcttta agttcccaga ccaatataca ttaagagttt tgcaggtctt aaattgtgt tattccaac acgtggaaa ctcctggaaa gaaattttac attcgggtgt tctgtgtctc taatgacact tgaccttgtt gaacaaatgg cagagcctt ccaaggatt tgattgttg tgaattatct gcatgtgtc tttttttg tgtgtattc ataaaaaat ataatatt atg </p>	<p> Homo sapiens </p>
				<p> CKKKIDVNP I QILANEEMKV MCDNNPVSLN CCSQGNVWS KVENKQEGKI NIPGTPETDI P DSSCSRYTLK ADGTQCPGS SGTTVIYTCF FISAYGARGS ANIKVTFISV ANLTITPDPI SVSEGNFSI KCISDVSNYD EYWNYSAGI KIYQRFYTR RYLDGAESVL TVKTSTREWN GTYHCIFRYK NSYSIATKDV IVHPLPLKLN IMVDPLEATV SCSSGSHHIK CIEEDGDYKV TFHMGSSSLP AAKEVNKKQV CYKHNFNASS VSWCKTVDV CCHFTNAANN SWSPSMKLN LVPGENITCQ DPVIGVGEPG KVIQKLCRFS NVPSSPESPI GGTITYKCVG SQWEEKRND </p>	

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Homo
sapiens

408 21632 BAA96055.1 G Protein-Coupled Receptor Ls21632

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Homo
sapiens

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 ccaataaaca actgatttag atttagaaga tattgtaaaa aaaaaaaa aaa
 412 22925 Latrophilin- NP_056051.1 MWPSQLLIFM MLLAPIIHAF SRAPIPMAV RRELSCESYP IELRCPTGTDV IMIESANYGR P Homo sapiens
 3 TDDKICDSDP AQMENIRCYL PDAYKIMSQR CNNRTOCAV AGPDVFPDPC PGTYKYLEVQ

413	25359	G Protein- Coupled Receptor GPR34	NM_005300	<p>YECVPYKVEQ KVFLLCPGLLK GYQSEHLFE SDHQSGAWCK DPLQASDKIY YMPWTPYRTD TLTEYSSKDD FIAGRPTTTY KLPHRVDGTG FVYDGALEF NKERTRNIVK FDLRTRIKSG EAIIANANYH DTSPYRWGK SDIDLAVDEN GLWIVATEQ NGKIVISQL NPYTLRIEGT WDTAYDKRSA SNAFMICGIL YVVKSVYEDD DNEATGNKID YIYNTDQSKD SLVDVPPFENS YQYIAAADYN PRDNLVWVN NYHVVKYSLD FGPLDSRSG AHGQVSYIS PPIHLDSLE RPSVKDISST GPLGMGSTTT STTLRTTLLS GRNRSTSPV SPAVEVLDDM TTHLPSASSQ IPALIESCEA VEAREIMWFK TRQQLAKQP CPAGTIGVST YLCLAPDGIW DPQGPDLNC SSPWNHITQ KLKSGETAAN IARELAQTR NHLNAGDITY SVRAMDQLVG LLDVQLRNLIT PGGKDSAAKS LNKLOKRS CRAYQAVVE TVNNLQPPA LNAWRDLTTS DQLRAATMLL HTVESAFVL ADNLLKTDIV RENTDNKLE VARLSTENL EDLKEPENMG HGSTIQLSAN TLKQNGRGE IRVAFVLYNN LGPYLSTENA SMKLGTEALS TNHSVIVNSP VITAAINKEF SNKVYLADPV VFTVKHIKQS EENFNPNCSF WSYSKRWTG YWSTQGCRL TTNKTHTTCS CNHLTNFAVL MAHVEVKHSD AVHDLLEDVI TWGILLSLV CLLCIFTEFC FFRGLQSDRN TIHKNLCISL FVAELLEFLG INRTDQFIAC AVFAALLHEF FLAAFTWMEL EGVQLYIMLV EVFESEHSRR KYFYLVGYGM PALIVAVSAA VDYSYGTDK VCWLRLDTYF IWSFIGPATL IIMLVIFLG IALYKMFHT AILKPESGCL DNINYEDNRP FIKSWVIGAI ALLCLGLTW AFLMYINES TVIMAYLFTI FNSLQGMFIF IFHCVLQKKV RKEYGKCLRT HCCSGKSTES SIGSGKTS GS RTPGRYSTGS QSRIRRMWMD TVRKQSESSF ITGDINSSAS LNREPYRETS MGKLNIAAYQ IGASEQCQGY KCHGYSITTEW</p> <p>atgagaagtc ataccataac aatgacgaca acttcagtc a cacagaatgc gctttataac caatcatagc gaccacacgc ccaaatgtta ctactgtcc catgagtgaa aaattgtctat tactctgtta ttttcatcgt ggactgtgtt gggaacataa ggtattcacc gtaaaagaaa ttccattcaa atttatctac ctcctactca tcttctgctt ccccttccga ataattgtat acactagggtg tgattctgtg caagggtgtg ggaacactgt agcattattt tgcttggtt catcagtttg gatcgctata cagcaacgga aggcataaac aaccaaacaa agtatttatg cttgctcttg gtgattcct aactatgatt attttaacac tccacaatgt gtttccatta cagagataag cataacgcaa ttcattcttg tggtaattgt ctggctaatt ttctactaa attgggaaga atctattgag gatttctaaa aggaggtcaa tatgccacta cagctcgtaa ctccctttatt gtaattatca ccctatcatg ccttctgatt catctacatt tcttcacagc tggaagaaaa ttgttcacaa aaccaatgag atcatgctg tgcttagatc cagtcattga tttcctgatg tccagtaaca cttcttttta gacgatttca agtgaacca agtaggagta ccaggatact ccctgcatga tacatctgtg gcagtga acttga</p>	Homo sapiens
414	25359	G Protein- Coupled	NP_005291.1	<p>MRSHITMTT TSVSSWPYSS HRMRFITNHS DQPPQNFESAT PNVVTCPMDE KLLSTVLTTTS P YSVIFIVGLV GNIIALYVEL GIHRKRNSIQ IYLLNVAIAD LLLIFCLPFR IMYHINQNKW</p>	Homo sapiens

Receptor GPR34	415	30698	G Protein- Coupled Receptor Ls30698	AX068267	<p>TLGVILCKW GTLFYNNMYI SIILLGFISL DRYIKINRSI QQRKAITTKQ SIYVCCIVMM LALGGFLTMI ILTLKKGHN STMCIFYRDK HNAKGFAFN FILVMEFLI FLIIILSYIK IGNLLRISK RRSKFNSSGK YATTARNSEI VLIIFICFV PYHAFFRIYI SSQINVSICY WKEIVHKTNE IMLVLSSEFN CLDPVMYELM SSNIRKIMCQ LLFRRFOGEP SRSESTSEFK PGVSLHDTSV AVKIQSSSKS T</p> <p>gtttccagat cggcttctcg caacaggcag tcagtttcca ctgggcccct tggactccca A tttcaaaaat ggagaagaca gatcacagcc actgacaggg gaccgtggga ggtgccacgt gatggtgagg catcgtcta gggagctgag ctctgacctt cctgctgggt gattctccac ctctgggctg ctagatctac ttctctgag cctggaagat cctcatgtat gaaaatgaag tcccaggcaa ccatgatttg ctgcttagtg ttctttctgt ccacagaatg tttccactat agatccaaaga ttacactaaa aagctatagt gaagtggcca accacatcct cgacacagca gccatttcaa actgggcttt cattcccaac aaaaatgcca gctcggattt gttgcagtca gtgaatttgt ttgccagaca actccacatc cacaataatt ctgagaacat tgtgaatgaa ctcttcattc agacaaaagg gtttcacatc accataata cctcagagaa agcctcaat ttctccatga gcataaaca taccacagaa gatatcttag gaatggtaca gattccccagg caagagctaa ggaagctgtg gccaaatgca tcccaagcca ttgcatagc tttcccaacc ttgggggcta tcttgagaga agcccacttg caaaatgtga gtcttcccag acaggtaaaat ggtctggtgc tatcagtgtt ttaccagaa aggttgcaag aaatcatact cacttccgaa aagatcaata aaaccgcaa tgccagagcc cagtgtgttg gctggcactc caagaaaagg agatgggatg agaaagcgtg ccaaatgatg ttggatata ggaacgaagt gaaatgccgc tgtaactaca ccagtgtgtt gatgtctttt tccatttcca tgctctccaa atcgatgacc gacaaagttc tggactacat cactgcatc ggcctcagcg tctcaatcct aagcttgggt ctttgcctga tcattgaagc cacagtgttg tcccgggtgg ttgtgacgga gatatacatc atgcgtcacg tgtgcacgt gaatatagca gtgtcccttc tgactgcca tgtgtgggtt atcataggct ctacattta cattaaagcc caggactaca acatgtgtgt tgcagtgaca tttttcagcc actttttcta cctctctctg tttttctgga tgctcttcaa agcattgctc atcatttatg gaatatgtgt cattttcctg aggatgatga agtcccgaat gatggtcatt ggctttgcca ttggctatgg gtgcccattg atcattgtcg tcaactacagt tgctatacaca gagccagaga acggctacat gagacctgag gcctgttggc ttaactggga caataccaaa gcccttttag catttgccat cccggcgttc gtcatgttgg gtgtaaaatc gatgtgggtt ttggttgttg ctgtcaacac tcagaggcc tctattggca gtccaagtc tcaggatgtg gtcataatta tgaggatcag caaaaatgtt gccatccta ctccactgtc gggactgacc tggggttttg gaatagccac tctcatagaa ggcacttctc tgacgttcca tataattttt gccttgctca atgctttcca ggtttttttc atctctgtgt ttggaacctat tatggatcac aagataagag atgcttttag gatgaggatg tcttcaatga aggggaaatc gagggcagct gagaatgcat cactaggccc aaccaatgga tctaaattaa tgaatcgtca agatgaaat gctgccccat ttctcatgga tgtcctgaga ccaagagggg agatccagga gaaagagcc atggaagca ggctggagt aggaggaatg gtcatgtctc ctgtgaagac tttctcttct tgtcaggagt gactcccaag ctcttggctg gccgaagaaa aactgaggat aacatttgc gactgggctt taaggagcat gatttatgga ccccttaacc taccctgtgc ctgcaagagg ctggcttctt gtccaatctt gactagatta agagtcaatc tgcaagccat tttatggctc</p>	Homo sapiens
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Homo
sapiens

P

CAC27252.1

30698 G Protein-
Coupled
Receptor
Ls30698

416

ccctggccag ctgggggctg tagggccctg ctgggcttgg tcgtctttca ctccctgagc
 ctgctctgtg gctccatagc tcagtcctcc atcactctgc gtggatcctg ggtactttgg
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 acataaacga atatatgtac ctttcac

MMKMSQATMI CCLVFLSTE CSHYRSKIHL KSYSEVANHI LDAAISNWA FIPKNASSD
 LLOSVNLFAR QLIHNNSEN IVNELFIQTK GFHINHNTSE KSLNFSMSMN NTTEDILGMV
 QIPRQELRKL WPNASQAISI AFPTLGAILR EAHLQNVSLP QVNGLVLSV VLPERLQEI
 LTFEKINKTR NARAQCVMWH SKRRRWDEKA QOMLDIRNE VKRCNYTSV VMSFSILMSS
 KSMTDKVDY ITCIGLSVSI LSLVLCILIE ATVWSRVVVT EISYMRHVIC VNIASVLLTA
 NVWFIQSHF NIKAQDYNMC VAVTFESHFF YLSLFFWMLF KALLIYGIL VIFRRMMSR
 MMVIGFAIGY GCPLIAVTT VAITEPENGY MRPEACWLNW DNTKALLAFA IPAFVIVAVN
 LIVVLVAVN TORPSIGSSK SQDVVIIMRI SKNVAILTPL LGLTWGFGIA TLIETGSLTF
 HIIFALLNAF QGFFILLFGT IMDHKIRDAL RMRMSSLKKG SRAAENASLG PTNGSKLMNR

QG

Homo
sapiens

A

NM_023915

30875 G Protein-
Coupled
Receptor
GPR87/GPR95

417

ggcacgaggg ttctgttttc atgctttacc agaaaatcca cttccctgcc gacctagtt
 tcaaagctta tctttaataa gagacaagaa acctgtttca acttgaagac accgtatgag
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418	30875	G Protein- Coupled Receptor GPR87/GPR95	NP_076404.1	gtgtaggcct tttattgttt gttggaatcg atatgtacaa agtgtaaata aatgtttctt ttcattatcc ttaaaaaa aa MGFNLTIAKL PNNEHGOES HNSGNRSDGP GKNTTLHNEF DTIVLPVLYL IIFVASILLN P GLAVWIFFHI RNKTSIFYL KNIVVADLIM TLTFPFRIVH DAGFGPWYFK FILCRYTSVL FYANNMYSIV FLGLISIDRY LKVVKPFQDS RMYSTITKV LSVCVWVIMA VLSLPNIIT NGQPTEDNIH DSKLSPGLG VKWHTAVTYV NSCLFVAVLV ILIGCYAIS RYHKSSRQF ISQSSRRKXH NQSIRVVAV FFTCFLPYHL CRIPFTFSLH DRLDESAQK ILYYCKEITL FLSACNVCLD PIIFYFMCRS FSRRLFKSN IRTSESIRS LQSVRRSEVR IYYDYTDV ggccttatct ttccagtcgt ccagcatgct ctgcccacc cagcgcagg tgcactgacc A atgagcctca actcctccct cagctgcagg aaggagctga gtaatctcac tgaggaggag ggtggcgaag ggggcgtcat catcacccag ttcatcgcca tcattgtcat caccattttt gtctgctggt gaaacctggt catcgtggtc acctgtgaca agaagtccta cctcctcacc ctcagcaaca agttegtctt cagcctgact ctgtccact tcctgtgtc cgtgttggtg ctgccttttg tggtagcagg ctccatccgc agggaatgga tctttgtgtg agtgtggtg aacttctctg cctcctcta cctgctgac agctctgcca gcatgctaac cctcggggtc attgcccacg accgctacta tgctgtcctg taccctcatg tgaccccat gaagatcaca gggaaccggg ctgtgatggc acttgctac atctggctc actcgtcat cggctgcctg ccaccctgt ttggttggtc atccgtggag tttagacagt tcaaatggat gtgtgtggt gcttggcacc gggagcctgg ctacacggcc ttctggcaga tctgtgtgct cctcttccc ttctgtgtca tgctgtgtg ctatggcttc atcttcgctg tggccagggt caaggcaccg aagtgacact gtggacagt cgtcatcgtg gaggaggatg ctccagaggac cgggaggaa aactccagca cctccacctc ctcttcaggc agcaggaggga atgcctttca ggtgtggtc tactcggcca accagtcaa agccctcacc accatcctgg tggctcctgg tgccttcacg gtcacctggg gccctacat ggtgtgtcgc gcctctgagg ccctctggg gaaaagctcc gtctcccca gctggagac ttgggcca caactgtcct ttgccagcg tgctgtccac ccctgatct atggactctg gaacaagaca gtctgcgcaa aactactggg catgtgcttt ggggaaccgt attatcgga accattgtg caacgacaga ggaactccag gctcttcagc atttcaaca ggaacacaga cctgggacctg tccccacc tcaactgcgt catggcagg ggacagccc tggggcacag cagcagcacg ggggacactg gcttcagctg ctcccaggac tcaggtaacc tgcgtgcttt ataagcctct cacctgtcgc gtttccctg tgttgctgtt ccccgtgtc gcgttcccc tgtgcaggct caagagctgg cggaggggca tttcccacgg tg	Homo sapiens
419	31568	G Protein- Coupled Receptor RE2	NM_007369	MSLNSLSLSCR KELSNTREE GEGGVITQ FIAIIVITF VCLGNLVIV TLYKKSLLT P LSNKFVFSLT LSNFLSVLV LPFVVTSSIR REWIFGVWC NFSALLYLLI SSASMLTLGV IAIDRYAYVL YPMVPMKIT GNRVAMALV IWLHSLIGCL PFLFGWSSVE FDEFKWMCA AWHREPGYTA FQIWCALFP FLVMLVCYGF IFRVARVKAR KVHCGTVIV EEDAQTGRK NSSTSTSSG SRNFAQGVV YSANQCKALI TILVLGAEM VTWGPYMWI ASEALWGKSS VSPSLETWAT WLSFASAVCH PLIYGLWNT VRKELLMCF GDRIYREPFV QRQTSRLFS ISNRITDGL SPHLTALMAG GQPLGHSST GDTGFCSSQD SGNLRL atggacacct cccggctcgg tgtgtcctg tcttgcctg tgctgtgca gctggcgacc A gggggcagct ctcccaggct tgggtgtgtg ctgagggggt gcccacaca ctgtcatgac	Homo sapiens
420	31568	G Protein- Coupled Receptor RE2	NP_031395.1	gtgtaggcct tttattgttt gttggaatcg atatgtacaa agtgtaaata aatgtttctt ttcattatcc ttaaaaaa aa MGFNLTIAKL PNNEHGOES HNSGNRSDGP GKNTTLHNEF DTIVLPVLYL IIFVASILLN P GLAVWIFFHI RNKTSIFYL KNIVVADLIM TLTFPFRIVH DAGFGPWYFK FILCRYTSVL FYANNMYSIV FLGLISIDRY LKVVKPFQDS RMYSTITKV LSVCVWVIMA VLSLPNIIT NGQPTEDNIH DSKLSPGLG VKWHTAVTYV NSCLFVAVLV ILIGCYAIS RYHKSSRQF ISQSSRRKXH NQSIRVVAV FFTCFLPYHL CRIPFTFSLH DRLDESAQK ILYYCKEITL FLSACNVCLD PIIFYFMCRS FSRRLFKSN IRTSESIRS LQSVRRSEVR IYYDYTDV ggccttatct ttccagtcgt ccagcatgct ctgcccacc cagcgcagg tgcactgacc A atgagcctca actcctccct cagctgcagg aaggagctga gtaatctcac tgaggaggag ggtggcgaag ggggcgtcat catcacccag ttcatcgcca tcattgtcat caccattttt gtctgctggt gaaacctggt catcgtggtc acctgtgaca agaagtccta cctcctcacc ctcagcaaca agttegtctt cagcctgact ctgtccact tcctgtgtc cgtgttggtg ctgccttttg tggtagcagg ctccatccgc agggaatgga tctttgtgtg agtgtggtg aacttctctg cctcctcta cctgctgac agctctgcca gcatgctaac cctcggggtc attgcccacg accgctacta tgctgtcctg taccctcatg tgaccccat gaagatcaca gggaaccggg ctgtgatggc acttgctac atctggctc actcgtcat cggctgcctg ccaccctgt ttggttggtc atccgtggag tttagacagt tcaaatggat gtgtgtggt gcttggcacc gggagcctgg ctacacggcc ttctggcaga tctgtgtgct cctcttccc ttctgtgtca tgctgtgtg ctatggcttc atcttcgctg tggccagggt caaggcaccg aagtgacact gtggacagt cgtcatcgtg gaggaggatg ctccagaggac cgggaggaa aactccagca cctccacctc ctcttcaggc agcaggaggga atgcctttca ggtgtggtc tactcggcca accagtcaa agccctcacc accatcctgg tggctcctgg tgccttcacg gtcacctggg gccctacat ggtgtgtcgc gcctctgagg ccctctggg gaaaagctcc gtctcccca gctggagac ttgggcca caactgtcct ttgccagcg tgctgtccac ccctgatct atggactctg gaacaagaca gtctgcgcaa aactactggg catgtgcttt ggggaaccgt attatcgga accattgtg caacgacaga ggaactccag gctcttcagc atttcaaca ggaacacaga cctgggacctg tccccacc tcaactgcgt catggcagg ggacagccc tggggcacag cagcagcacg ggggacactg gcttcagctg ctcccaggac tcaggtaacc tgcgtgcttt ataagcctct cacctgtcgc gtttccctg tgttgctgtt ccccgtgtc gcgttcccc tgtgcaggct caagagctgg cggaggggca tttcccacgg tg	Homo sapiens
421	36534	G Protein- Coupled	NM_003667	atggacacct cccggctcgg tgtgtcctg tcttgcctg tgctgtgca gctggcgacc A gggggcagct ctcccaggct tgggtgtgtg ctgagggggt gcccacaca ctgtcatgac	Homo sapiens

Receptor
GPR49

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tggacaagat caaacaccc aagcttgatg tcaattaact ctgatgatg cgaataacag

Homo sapiens

NP_003658.1

G Protein-Coupled Receptor GPR49

36534

tcctgtgact caactcaagc ctgtgtaacc ttaccagct ccagatcac ttatgacctg
cctccagtt cegtccatc accagttat ccagtgactg agagtgcca tcttctctct
gtggcatttg tccatgtct ctaa
PSNLVFTSY LSLVLIQLAT GSSSPRSGL LRGCPHCHC EPDGRMLLRV DCSDLGLSEL P
LQNNQLRHVP TEALQNLRS QSLRLDANHI SYVPSFCFSG LHSRLHMLD DGLALTEIPVQ
AFRSLALQA MTLALNKIHH IPDYAFGNLS SLVLHLHNN RIHSLGKKCF DGLHSLLETL
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CSPSPGPKP CEHLDDGLI RIGVWTIAVL ALTCTNALVTS TVERSPLYIS PIKLLIGVIA
AVNMLTGVSS AVLAGVDAFT FGSFARHGAW WENGVGCHVI GFLSIFASES SVFLLTLAAL
ERGFVVKYSA KFETKAPFSS LKVIILICAL LALTMAAVPL LGGSKYGASP LCLPLPFGEF
STMGMVALI LNSLCFLMM TIATKLYCN LDKGDLENIW DCSMVKHIAL LLFTNCILNC
PVAFISFSSL INLTFSPEV IKFILLVVP LPACLNFLY ILFNPHEKED LVSLRKQTYV
WTRSKHPSLM SINSDDVEKQ SCDSTQALVT FTSSSITYDL PPSSVPSPAY PVTESCHLSS
VAFVPCIL

Homo sapiens

NM_004736

Xenotropic and Polytropic Retrovirus Receptor (XPRI)

37498

actagagatg gcgggcgggc tgctctgaag agacctggcg ggcggcgag gaggagagaa A
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aactttctac tataaatccc gggtttggct gctaaactg ctgtttcag tattacagc

424	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	NP_004727.1	<p> ccccctccat aaggtaggct ttgctgattt ctggctggcg gatcagctga acagcctgtc agtatactg atggacctgg aatatatgat ctgctctac agtttgagc tcaaatggga tgaagtaag ggcctgttgc caataatc agaagaatca ggaatttgcc acaatatatac atatggtgtg cgggccattg ttcatgtcat tctgtgttg ctctgcttca tccagtgcct ggcgcatat cgagacacaa aaaggccctt tctctatcta gtaaatgtg gcaagtactc cacacttct tcatgtgttg cgttgagc gtttctcagc actacaaa aacgaggtca ctcgacact atggtgttct ttactgtg agtttctt tatacatca gtctctgtca tacctcatc tgggatctca agatgactg ggtctcttc gataagaatg ctggagagaa cacttcttc cgggaagaga ttgtataccc ccaaaaagcc tactactact gtgccataat agagatgtg attctgcgt ttgctggac tatccaatc tcatctact ctacaaattt gtgctcatc tctgggaca tcatgtctac tgtcttgcc ccacttgagg tttccggcg attgtgtg aacttcttc gcctggagaa tgaacatctg aataactgtg gtgaattccg tgctgtcgg gacatctctg tggcccccct gaacgcatg gatcagactc tctagaaca gatgatggac caggtatgat gggtaagaaa cgcctagaa atcgggtcat ggaagtacaa ccagagcata tccctgcgc ggcctgcct cgtctctcaa tccaaggctc gtgacactaa ggtattgata gaagacacag atgatgagc taacacttga atttctgaa gtctagctta acatcttgg tttctact ctacaactc tctctgacc aacgcaactc ctagtacct tccagccgaa aacaggagaa aacacataac acatttctc agctctctcg gatcggatcc tatggactcc aaacaagctc actgtgttc tttcttctc tctctgttca atttaattt tctatttca aaacaagtat ttacttcat tgccaatcag aggatgtttt aagaacaaa acatgatc ttatggattg ttacataca caggacata gatcctatc aggatgaaga acaggattg caaggacct ctgatggac ggtactaga tatctcggct tccgctcagc ccggttttga atggtgaaa ccggacattg gtttttaaat ttttgcag tttatgtgga gaatttttt ctctctca taccagcgc aaaggcactg gccgacttg caggaaaagt gcaactaaa gcagtacctt cattcatgaa gctactttt aatttgatg aacttttctt attttgggaa ggtgtgtg gtgggtggga aatatgatg attgttaca catagttttc tcattattta tgaacactaa ccatacagaa tgatataact cctgtgcaat gaagtgata acagtaaaag aagcgaggag aaaaaaaa </p>	<p> SAQDQAPSVE VTDETVKRY FAKFEKFFQ P LQSSLDAQE STGVTLROR RKPVFHLSHE LNFTGFRKIL KKHDKILETS RGADWRVAHV RQAMKRLRV PPLGAAQAP AWTFRVGLF IYRGFLLIE FLFLGINTY GWRQAGVNHV LLACFFAPIS VIPTYVPLA LYGFVFFELI FADFLLDL NLSVILMDL EYMICFYSLE VQCIPAWLRF IQCLRRYRDT KRAPPHLVNA FYLIWIVFYI SSCYTLIWDL KMDWGLFDKN FAWTIQISIT STLLPHSGD IATVEAPLE VAPLNADDQT LLEQMDQDD GVRNRQKNRS DDEANT </p>	Homo sapiens
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425	40881	Lung Seven Transmembran e Receptor 2 (LUSTR2)	AX073578	agagatggca gtgagcgaga ggagggggct cggccgcggg agccccggg agtgggggca A gcggtactt ctggtctgc tgttgggtg ctgctccgg cgcattccacc ggctggcgt gacgggggag aagcagcgg acatccagct gaacagcttc ggtttctaca ccaatggctc tctggaggtg gatttgagcg tctgcggct ggccctccg gaggcagaag agaagtcct gctggtggg ttcagtctca gccgggttc gctggcaga gttcgtctt attcaaccg ggatttccag gactgcctc tccagaaaa cagtgcagt tctcgtgctc tgttctcat caacaccaag gactgcagg tccaggtgc gaagtatga gacgagaaga cgttggttat ctttccggg ctctccggg aagcaccct caaacaggg ctcccgaag cacaggccac agtccccgc aaggtggat gcggaggac ctctgcagc agcaagcca agtcaacacc cgcagtatt cagggtccta ggggaagga caaggacctg gtttgggccc tgagccacct caacaactcc tacaacttca gtttccact ggtgatcggc tctcaggcgg aagaaggcca gtacagcctg aacttccaca actgcaacaa ttcagtcca ggaaggagc atccattcga catcaggtg atgatccgg agaagaacc cgtggcttc ctgtcggcag cggagatgcc cttttcaag ctctacatgg tcatgtccg ctgcttctc gccgtggca tcttctgggt gtccatctc tgcaggaaac cgtacagct cttcaagatc cactggctca tggcggcctt ggccttacc aagagcatct ctctctctt ccacagcatc aactactact tcatcaacag ccagggccac cccatcgaag gccctgcgt catgtactac atgcacacc tgcgaagg cgccctctc ttcataccca tgcctctgat tggctcagg tggcccttca tcaagtactg cctgtcggat aaggagaaga aggtctttg gatcgtgat cccatgcagg tcttggccaa cgtggcctac atcatatcg agtccgcga ggaaggcgc agcactacg tctgtggaa ggagatttg ttcctggtg acctcatctg ctgtgtgccc atcctgttcc ccgtagtctg gtccatccgg catctccagg atcgtctgg cacagacgg aagtgggcag tgaacctggc caagctgaag ctgttccgg atactatgt catgtctatc tgtactgtct acttccaccg catcatgcc atcctgtgc agtggtgtg gccctttcag tggcagtggt tttaccagct cttgggtgag ggtccacc cgtgccttct cgtgtcagc ggtacaagt tccagccacc agggaacaac ccgtacctgc agtgcacca gaggacgag gaggatgtt agatggagca agtaatgacg gactctgggt tccgggaag cctctccaa gtcaacaaa cagccagcgg gcgggaactg ttatgatcac ctccacatct cagaccaaa ggtcgtctc cccagcatt tctcactct gcccttctc cacagcgtat gtggggaggt ggagggggtc catgtggacc aggcgccag ctccccgga ccccggttc cggacaagc catttggag aagagtcctt tctcccccc aaatattgg cagccctgtc ctaccgccg gaccaccct ccttccagc tatgtgtaca ataattgacca atctgtttg ct	Homo sapiens
426	40881	Lung Seven Transmembran e Receptor 2 (LUSTR2)	CAC28410.1	MAVSERRGLG RGSPAEWQR LLLVLLGGC SGRIHRLALT GEKRAIQLN SFGFYTNGLS P EVELSVLRIG IREAEKSLV VGFSLSRVS GRVRSYSTRD FQDCPLQKNS SSFLVFLIN TKDLQVVRK YGEQKTLFIF PGLLPEAPSK PGLPKQATV PRKVDGGTS AASKPKSTPA VIQGPSGDKD DLVLGLSHLN NSYNFESHV IGSAAEGQY SILFNHCNS VPGKEHPFI TVMIREKNPD GFLSAAEMPL FKLYMMSAC FLAAGIFWS ILCRNTYSVF KIHWLMAALA FTKSISLLEH SINYFFINSQ GHPIEGLAVM YYIAHLLKGA LLFITIALIG SGWAFIKYVL SDKEKKVFGI VIPMQVLNV AYIIIESREE GASDYLWKE ILFLVDLICC GAILFPVWS IRHLQDASGT DGKVAVNLAK LKLFRRHYVM VICVYFTRI IAILLQVAVP FQWQLYQLL VEGSTLAFFV LTGYKFKPTG NNPLYQLPQE DEEDVQMEQV MTDSGFREGI SKVNKTASGR	Homo sapiens

427	42697	G Protein- Coupled Receptor GPR64	NM_005756	ELL	Homo sapiens
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 PSSNEVERTS LNDVTLSP SNETEKTKIT IVKTFNAGV KPQRNICNLS SICNDSAFFR
 42697 G ProteIn- Coupled Homo sapiens
 428

Homo sapiens

A

AF376725

KIAA1624
Protein

GEIMFQYDKE	STVPQNHIT	NGTLTGVLSL	SELKRSELNK	TLQTLSETYF	IMCATAEAQS
TLNCTFTIKL	NNTMNAACA	AALERVKIRP	MEHCCECVRI	PCPSSPEELG	KLQCDLQDPI
VCLADHPRGP	PFSSQSIPV	VPRATVLSQV	PKATSEAPPP	DYSPVTHNVP	SPINQEQPLS
QOPSPAIASS	PAIDMPQSE	TISSPMQTH	VSGTPPPVKA	QFSPTVHSAP	ANWNTTSAPP
VQDZDVNTSS	ISDLNQVLS	MEKALSLSGL	ESPNLAGEMIN	QVSRLHSPPP	DMLAPLAQRL
LKQVDDIGLQ	LNFSNNTVLQ	TSPSLALAVI	RVNASSFNFT	TFVAQDPANL	QVSLETOAPE
NSIGITITLPS	SLMNNLPAHD	MELASRVQFN	FFETPALFQD	PSLENLSLIS	YVSISSVANL
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SHLTSFGVLL	DLRSRTSVLPA	QMMALTFITY	IGCGLSSIFL	SVTLVTYIAF	EKIRRDYPSK
ILILQICAAAL	LLNLVFLDLS	WIALYKMOGL	CISVAVELHY	FLLVSFTWMG	LEAFHMYLAL
VKVFENYIRK	YILKFCIVGW	GVPAVVVTII	LITISPDNYGL	GRYKTFPNGS	PDDFCWINNN
AVFYITVVGY	FVCFIFLNVS	MEIIVLVQLC	RIKKKKQLGA	QSKTSIQDLR	SIAGLTFELG
ITWGFAFFAW	PCVANVTMYL	FAIENTLQGF	FIFIFYCVAK	ENVRKQWRRY	LCCGKLRLAE
NSDWSKTATN	GLKKQTVNQG	VSSSSNSLSQS	SSNSTNSTTL	LVNNDCSVHA	SGNGNASTER
NGVSFSVQNG	DVCLHDFTGK	QHMENEKEDS	CNGKGRMALR	RTSKRGSLHF	IEQM
gaacaaaacat	ggcgcctctg	gcgcgcctcg	gctccccgcg	ctccccgcgt	cctaggctgg
ccgcggggcct	ccgctgctct	ccaatgctgg	gttgctgca	gttctggcc	gagcctggcc
tygggcggcgt	ccatcacctg	gcactcaagg	atgagtgtg	gcataaagtt	catctgaaca
cctttggcctt	cttcaaggat	gggtacatgg	tggtgaatg	cgatgacct	tcactgaatg
agcctgaaga	caaggatgtg	actattggat	ttagcctaga	ccgtacaaag	aatgatggct
ttttctctta	cctggatgaa	gatgtgaat	actgtatttt	aaagaaacag	tctgtctctg
tcaccttttt	aatcctagac	atctccagaa	gtgaggtaa	agtaaagct	ccaccagaag
ctggtaccca	gttacccaa	atcatcttca	gcagggatga	gaaagtcctt	ggtcagagcc
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gaagactctaa	agaaagtaca	gtgattctaa	aggccatggg	agagaaatcc	ttttctgttc
ataataatgg	tygggcagtg	tcatttctag	ttttctttaa	catcagcact	gatgaccaag
aaggccctta	cagtccttat	tttcataaat	gccttggaag	agaattgcca	agtgaaca
ttacattca	ccttgatatt	gagatcacag	agaagaatcc	tgacagctac	ctctcagcac
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ttttgaaagg	ggcgctactc	ttcatcacca	ttgcactcat	tggcactggc	tgggcctttca
ttaagcacat	cctttctgat	aaagacaaaa	agatcttcat	gattgtcat	ccactccagg
tcctggcaaa	tytagcctac	atcatcatag	agtcaccgga	ggagggcacg	actgaatatg
gcttgtggaa	ggactctcta	tttctggctg	acctgttgtg	ttgtggtgcc	atcctcttcc
cagtggtgtg	gtcaatcaga	catttacaag	aagcatcagc	aacagatgga	aaagctgcta
ttaaacttagc	aaagctgaaa	ttttctcagc	attatcatgt	cttgatttgy	tggtacatat
acttcactag	gatcatttga	ttttctctca	aactcgctgt	tcattctcag	tyggaagtggc
tctaccagct	ctcggatgaa	acggccacac	tggtcttctt	tggtctaacg	gggtataaat
tcctgcggc	ttcagataac	ccctacctac	aactttctca	ggaagaagaa	gacttyggaaa

[illegible]

432	50847	Neurotensin Receptor type 2	NP_036476.1	PSSNPGLSIL ARLGVDTRLW AKVLFALYA LIWALGAAGN ALSVHVLKA P	acagtgaacc acctgctggc cctctgtctc caagtgcctg ccactttcac cccgggcagc tccaccccca gccgcctgga gctgctgagt gaggagggtc tcctcagctt catcgtatgg aagaagacct ttatccaggg aggccaggtc agcctgggtga gacataaaga cgtgcgcggg atccgcagcc tccagcgcag cgtccagggt ctcagagcca tcgtggtcat gtatgtcatc tgctgctgct cgtaccatgc ccgcaggctc atgtactgct acgtaccctga tgacgcgtgg actgaccac tgtacaattt ctaccactac ttctactatg tgaccaaac acttttctac gtcagctcag ctgtgactcc tcttctctac aacgcgctgt cctcctcctt cagaaaaact ttcctggaag ccgtcagctc cctgtgtgga gagcaccacc ccatgaagcg gttacccccg aagccccaga gtccccacct aatggataca gcttcaggct ttggggatcc ccagaaaacc cggacctgaa tgtaatgcaa gaatgaacag aacaagcaaa atgaccagct gcttagtcac ctggaaaagc aggtagcaaa cctcatcact aatcattcaa gcttcgcagc cagggcgact tctatcaacc cctgctctgc tgagaacctat caagcgcagg gaagccacgt gacccctcct agcctcaggc tccctcgtct gtgtagtgga gataaagaac agcaccatc tcttagtgtt gcctgagact aaagtgccta gcacagaacc tggtgcgtag tagatgctca ataaatTTTT gctggcacg	Homo sapiens
433	53440	G Protein- Coupled Receptor LS53440	AX107037	cagagaggt gtatttcagt gcagcctgcc agacctcttc tgaggaga gggtcacac attccttcca tacggttgag cctctacctg cctgggtgctg gtcacagttc agcttctca tgatggtgga tcccaatggc aatgaatcca gtgctacata cttcatccta ataggcctcc ctgggtttga agaggctcag ttctggttgg ccttcccat gtgctccctc taccttattg ctgtgctagg taacttgaca atcatctaca ttgtgcggac tgagcacagc ctgcatgagc ccatgtatat atttcttgc atgctttcag gcattgacat cctcatctcc acctatcca tgcccaaaat gctggccatc ttctggttca attccactac catccagttt gatgcttgc tgctacagat ttttgccatc cactccttat ctggcatgga atccacagt ctgctggcca tggtttttga ccgctatgtg gccatctgtc acctactgag ccatgccaca gtacttacgt tgctctgtgt caccaaaatt gggtgggtg ctgtgggtgcg gggggctgca ctgatggcac cccttctcgt cttcatcaag cagctgcct tctgcgcctc caatatcctt tccccattct actgcctaca ccaagatgtc atgaagctgg cctgtgatga tatccgggtc aatgtcgtct atggccttat cgctcatc tcgcctatg tcctgtgact acttctcatc tccttctcat atctgcttat tcttaagact gtgtgggtg tgacacgtga agccccagcc aaggcatttg gcacttgctg ctctcatgtg tgtgctgtgt tcatattcta tgtacctttc attggattgt ccatgggtga tcgcttttag aagcggcgtg actctccgct gcccgtcatc ttggccaata tctatctgct ggttcctcct gtgctcaacc caattgtcta tggagtgaag acaaaggaga ttcgacagcg catccttoga cttttccatg tggccacaca cgcttcagag ccctagggtg cagtgatcaa acttcttttc cattcagagt cctctgattc agattttaat	Homo sapiens	

434	53440	G Protein-Coupled Receptor LS53440	CAC38935.1	<p>gttaacattt tggaagacag tattcagaaa aaaaatttcc ttaataaaaa atacaactca gaccttcaa atatgaact ggttgggaa tctccatttt ttcaatatta tttcttctt tgtttcttg ctacataaa ttattaatac cctgactagg ttgtggttg agggttatta cttttcattt taccatgcag tccaaatcta aactgcttct actgatggtt tacagcattc tgagataaga atggtacatc tagagaacat ttgccaaaag cctaagcacg gcaaaaggaaa ataaacacag aatataataa aatgagataa tctagcttaa aactataact tctcttccag aactcccaac cacattggat ctacagaaaa tctgtcttcc aaatgactt ctacagagaa gaaataattt ttcctctgga cactagcaat taagggggag attggaagta aagcctttgaa aagagtacat ttacctacgt taatgaaggt tgacacactg ttctgagagt ttccacagca tatggaccct gtttttctta ttttaatttc ttatcaacc tttaattagg caaagatat attagtacc tcatgttagc catgggaaaa ttgatgttca gtgggatca gtgaattaaa tggggtcata caagtataaa aattaaaaaa aaaaagact tcatgcccaa tctcatatga tgtggaagaa ctgttagaga gaccaacagg gtatggggtt agagatttcc agagtcttac atcttctaga ggaggtattt aatttcttct cactcatcca gtgttgtatt taggaatttc ctggcaacag aactcatggc ttttaatccca ctagtattg cttattgtcc tggccaatt gccaattacc tgtgtcttgg aagaagtgt ttctagggtc accattatgg aagattctta ttcagaaggt ctgcataagg cttatagcaa gttatttatt tttaaaagt ccatagggtga ttctgatagg cagtgaagtt agggagccac cagttatgat gggaaagtat gaatggcagg tcttgagat aacattggcc ttttgagtgt gactcgtagc tggaaagtga gggaaatcttc aggaccatgc tttatttggg gctttgtgca gtatggaaca gggactttga gaccaggaaa gcaatctgac ttaggcatgg gaatcaggca ttttgccttc tgaggggcta ttaccaaggg ttaatagggt tcatcttcaa caggatatga caacagtgtt aaccaagaaa ctcaaatatc aaatactaaa acatgtgatc atatatgtgg taagtttcat tttcttttc aatcctcagg ttccctgata tggattccta taacatgctt tcatccctt ttgtaatgga tatcatattt ggaaatgcct atttaatac tgtatttgtc gctggactgt aagcccatga gggcactgtt tattattgaa tgtcatctct gtcatcatt gactgctctt tgctcatcat tgaatcccc agcaaatgc ctagaacata atagtgccta tgcttgacac cggttatttt tcatcaaac tgattccttc tgtcctgaac acatagccag gcaattttcc agccttcttt gagtgggta ttattaaatt ctggccatta ctccaatgt gagtgaagt gacatgtgca atttctatac ctggctcata aaacctccc atgtgcagcc tttcatgttg acattaaatg tgacttggga agctatgtt tacacagagt aaatcaccag aagcctggat ttctgaaaaa actgtgcaga gccaaacctc tgtcatttgc aactccact tgtatttga cgaggcagtt ggataagtga aaaaaaagt actatttgt caagaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaaa aaaaaa</p> <p>MMVDPNGNES SATYFILIGL PGLEEAQFML APPLCSLYLI AVLGNLTIIY IVRTEHSLHE P PMYIFLCMLS GIDILISTSS MPKMLAIFWF NSTTIQFDAC LIQMFHLSL SGMESTVLLA MAFDRYVAIC HPLRHATVLT LPRVTKIGVA AVVRGAALMA PLPVFIKQLP FCRSNILSHS YCLHQDVNKL ACDDIRNVV YGLIVIIISAI GLDSSLISFS YLLILKTVLG LTREAQAKAF GTCVSHVCAN FIFVPPFGL SMVHRESKRR DSPLPVILAN IYLLVPPVLN PIVYGVKTKE IRQILRLFH VATHASEP</p>	Homo sapiens
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435	54053	Gaba (b) Receptor 2	NM_005458	Homo sapiens
			atggcttccc cgcgagggtc cgggcagcca gggcggcgcg cgccgcgcgc accgcgcgcc A	
			gcgcctgc tactctact gctgctgcg ctgctgctgc ctctggcgcc cggggcctgg	
			ggctggcgcc gggcgccccc cgggcgcccg ccagcagccc gcgcctctc catcatgggc	
			ctcatgcgc tcaccaagga ggtggcccaag ggcagcatcg ggcgcggtgt gctccccgcc	
			gtggaactgg ccacgcagca gatccgcacac gactcactcc tgcgccccctt ctctctgcac	
			ctgcggtctc atgacacgga gtgcgacacac gcaaaagggt tgaaggccct ctacgatgca	
			ataaaatagc ggcgaacca ctltgatgtgt ttgtggagcg ttgtgccatc cgtcacatcc	
			atcattgcag agtccctcca aggttggaat ctggtgcagc ttctttttgc tgcaaccacg	
			cctgttctag ccgataagaa aaaataccct tattcttttc ggaccgtccc atcagacaat	
			gcggtgaatc cagccattct gaagttgctc aagcactacc agtggaaagc cgtgggcacg	
			ctgacgcaag acgttcagag gttctctgag gtgcggaatg acctgactgg agttctgtat	
			ggcgaggaca ttgagatttc agacaccgag agcttctcca acgacctctg taccagtgtc	
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			gcaaaagtgt tctgttgtgc atacgaggag aacatgtatg gtatgaaata tcaatggatc	
			attccgggct ggtacgagcc ttcttggtgg gagcaggtgc acacggaagc caactcatcc	
			cgtgcctcc ggaagaatct gcttgctgcc atggagggtt acattggcgt ggatttcgag	
			cccctgagct ccaagcagat caagaccatc tcaggaaaga ctccacagca gtatgagaga	
			gagtacaaca acaagcgtc aggcgtgggg ccacgcaagt tccacgggta cgcctacgat	
			ggcatctggg tcacgcgcaa gacactgcag agggccatgg agacactgca tgccagcagc	
			cggcaccagc ggatccagga cttaactac acggaccaca cgctgggcag gatcatcctc	
			aatgccatga acgagaccac ctctctcggg gtccacgggtc agtttgtatt ccggaatggg	
			gagagaatgg ggaccattaa atttactcaa ttccaagaca gcaggggaggt gaaggtggga	
			gagtacaacg ctgtggccga cacactggag atcatcaatg acaccatcag gttccaagga	
			tccgaaccac caaagacaa gaccatcctc ctggagcagc tgcggaagat ctccctacct	
			ctctacagca tcctctctgc cctcaccatc ctcgggatga tcatggccag tgcctttctc	
			ttcttcaaca tcaagaaccg gaatcagaag ctcataaaga tctcagatcc atacatgaac	
			aaccttatca tccttgagg gatgctctcc tatgcttcca tatttctctt tggccttgat	
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			ctgcgaagga cagtgagaaa gtacagcatg gagccggacc cagcaggacg ggaatatctc	
			atccgccttc tcctggagca ctgtgagaac acccatatga ccatctggct tggcatcgtc	
			tatgcctaca agggacttct catgttgttc ggttgtttct tagcttggga gacccgcaac	
			gtcagcatcc ccgcactcaa cgacagcaag tacatgggga tgaagtgtcta caactgggg	
			atcatgtgca tcctcggggc cgctgtctcc ttctgcacca gggaccagcc caatgtgcag	
			ttctgcatcg tggctctggt catcatcttc tgcagaccca tcacctctg cctgggtattc	
			gtgcggaagc tcataccctt gagaacaaac ccagatgcag caacgcagaa caggcgattc	
			cagttcactc agaatacagaa gaaagaagat tctaaaacgt ccacctcgtt caccagtgtg	
			aaccaagcca gcacatccc cctggagggc ctacagtcat aaaaaccatc cctgcgaatg	
			aagatcacag agctggataa agacttggaa gaggtcacca tgcagctgca ggacacacca	

436	54053	Gaba (b) Receptor 2	NP_005449.1	<p>gaaaagacca cctacattaa acagaaccac taccaagagc tcaatgacat cctcaacctg ggaaacttca ctgagagcac agatggagga aaggccattt taaaaatca cctcgatcaa. aatccccagc tacagtggaa cacaacagag ccctctcgaa catgcaaaaga tccatagaa gatataaact ctccagaaca catccagcgt cggctgtccc tccagctccc catcctccac cagcctacc tcccatccat cggaggcgtg gacgccagct gtgtcagccc ctgctcagc cccacgccca gccccgccca cagacatgtg ccaccctcct tccgagtcac ggtctcgggc ctgtaa</p>	Homo sapiens
				<p>MASPRRSQGP GRPPPPPPPP ARLLLLLLP LLLPLAPGAW GWARGAPRPP PSSPPLSIMG P LMPLTREVAK GSIGRGVLPV VELAIEQIRN ESLLRPYFLD LRLYDTECDN AKGLKAFYDA IKYGNHLMV FGGVCPSTV IIAESLQGNV LVQLSFAAT PVLADKKKYP YFFRTVPSDN AVNPAILKL KHYQWKRVGT LTQDVQRFSE VRNDLTGVLY GEDIEISDTE SFSNDPCTSV KKLKGNDVRI ILGQFDQMA AKVFCCAYEE NMYGSKYQWI IPGWYEPSWW EQVHTEANSS RCLRKNLLAA MEGYIGVDFE PLSSKQIKTI SGKTPQQYER EYNNKRSGVG PSKFHGYAYD GIWVIAKTLQ RAMETLHASS RHQRIQDFNY TDHTLGRILL NAMNETNFFG VTGQVVERNG ERMGTIKFTQ FQDSREVKVG EYNAVADTLE IINDTIRFOG SEPPKDKTII LEQLRKISLP LYSILSALTI LGMIMASAFI FFNKRNQK LKIMSSPYMN NLIILGGMLS YASIFLFLGLD GSFVSEKTFE TLCTVRTWIL TVGYTTAFGA MFAKTWRVHA IFKNVQMKKK IIKDQKLLVI VGMMLLIDLC ILICQAVDP LRRTVEKYSM EPDPAGRDIS IRPLLEHCEN THMTIWLIV YAYKGLMLF GCFLAWETRN VSIPALNDSK YIGMSVYNVG IMCIIGAASV FLTRDQPNVQ FCIVALVIF CSTITLCLVF VPKLITLRTN PDAATQNRRE EFTQNQKKED SKTSTSVTSV NQASTSRLEG LQSENHRLRM KITELDKDLE EVTMQLDTP EKTYYIKQNH YQELNDIILN GNFTESTDGG KAILKNHLDQ NPQLQWNTTE PSRTCKDPIR DINSPEHIQR RLSLQLPILH HAYLPSIGGV DASCVSPCVS PTASPRHRHV PPSFRVMVSG L</p>	Homo sapiens
437	55728	ETL protein	NM_022159	<p>gtgaaattta aactccagtc ctgtggcgaa aatgctaatt gcactaacac agaaggaagt A tattattgta tgtgtgtacc tggcttcaga tccagcagta accaagacag gtttatcact aatgatggaa ccgtctgtat agaaaatgtg aatgcaaaact gccatttaga taatgtctgt atagctgcaa atattaataa aactttaaca aaaatcagat ccataaaaga acctgtggct ttgctacaag aagtcctatag aaattctgtg acagatcttt caccacacaga tataattaca tatatagaat tattagctga atcatcttca ttactaggtt acaagaacaa cactatctca gccaaaggaca ccttttctaa ctcaactctt actgaatttg taaaaaccgt gaataatttt gttcaaaagg atacatttgt agtttgggac aagtattctg tgaatcatag gagaacacat cttacaaaac tcatgcacac tgttgaaaca gctactttta ggatattcca gagcttccaa aagaccacag agtttgatac aaattcaacg gatatagtct tcaaaagtttt cttttttgat tcataataca tgaacaatat tcatcctcat atgaatatgg atggagacta cataaatata tttccaaaga gaaaagctgc atagattca tctgacaact ttgcagttgc atttttatat tataagagta ttggtccttt gctttcatca tctgacaact tcttattgaa acctcaaaat tatgataatt ctgaagagga gaaaagagtc atactctcag taatttcagt ctcaatgagc tcaaacccac ccacattata tgaacttgaa aaaaatacat ttacattaaag tcatcgaaag gtcacagata ggtataggag tctatgtgca ttttggaatt actcacctga taccatgaat ggcagctggc cttcagaggg ctgtgagctg acatactcaa atgagaccca cacctcatgc cgctgtaatc acctgacaca ttttgcaatt ttgatgtcct ctggtccttc cattggtatt</p>	Homo sapiens

438	55728	ETL protein	NP_071442.1	MCVPGRSSS NQDRFITNDG EYRNSVTDL SPTDIITYIE DTFVWDKLS VNHRRTHLTK MKHIHPHNM DGDYINIFPK SEEEERVISS VISVSMSSNP SSEGCELTYS NETHTSRCRN CIFTWFEESE IQSTRTTIHK FAWMCIEGIIH LYLIIVGVII STENNFIWSF IGPACLIILV FLLGTTWIFG VLHVHVASVV CFGCLR	TVCIENVNAN CHLDNVCIAA ILAESSSLIG YKNNTISAKD LMHTVEQATL RISQSFQKTT RKAAYDSNGN VAVAFLYYKS PTLYELEKIT FTLSHRKVTD HLTHFAILMS SGPSIGIKDY NLCCSLFLAE LVFLVGINTN NGFELHKNEY IFGYLSPAVV NLLAFGVIIY KVFRHTAGLK TAYLFTVSNA FQGMFIFLFL CVALSRKIQEE YRRLFQNVPC	CHLDNVCIAA NINKTLTKIR YKNNTISAKD TLSNSTLTFE RISQSFQKTT EFDTNSTDIA VAVAFLYYKS IGPLLSSSDN FTLSHRKVTD RYRSLCAFWN SGPSIGIKDY NILTRITQLG LVFLVGINTN TNKLFCIIIA IFGYLSPAVV VGFSALGYR KVFRHTAGLK PEVSCFENIR FQGMFIFLFL SCARGALALL CVALSRKIQEE YRRLFQNVPC	Homo sapiens
439	56923	Muscarinic acetylcholine Receptor M3	NM_000740	atgacactgc acaataaacag atacacagcc cctccgatgc aatgtttctc gagcagctgg ggaggtcata ccgctctggca gtgaccatca tcggcaacat	tacaacactcg cctttgtttc agggtgccc ccgggaaccg caatttctcc tctccagacg agtggctctc atcgctttct cctgggtaatt gtgtcatatta	caaacatcag tcaactcatt ccgggaaccg gtaccaccca tgaccaccca taacgggcat aggtaacaaa aggtcaacaa	Homo sapiens

aaagattata atattcttac aagatcaact caactaggaa taattatttc actgatttgt
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 aatacaata ctaataagct cttctgttca atcattggcg gactgctaca ctacttcttt
 tttagctgctt ttgcatggat gtgcattgaa ggcatacatc tctatctcat tgttgtgggt
 gtcattaca acaaggatt ttgtgacaag aattttata ttttgggcta tctaagccca
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 gtccctgtt gttttggatg tttaaggtaa acatagagaa tgggtgataa ttcaaacctgc
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 gctgagaaat tgttgacata aaataaagaa ttgaagaac acattttacc atttgtgaa
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444	73584	Cadherin EGF NP_055061.1 LAG Seven- Pass G-Type Receptor 1 (CELSR1/Flam ingo)	cagtgccgac ccgtgctgg cagcccgggc agtcctttgc aaaggcacc cttgtcttaa aatcacttcg ctatgtggga aaggtggaga tacttttata tatttgtatg ggactctgag gagtgcaac ctgtatataat attgcattcg tgcgtacttt gttatccga gagatccatg caatgatctc ttgtgtcttt ctctgtcaag attgcacagt tgcatttgaa tctggcatgt gttgacgaaa ctggtgcccc agcagatcaa aggtgggaaa tacgtcagca gtggggctaa aaccagcgg ctagaagccc tacagctgcc ttcgccaggg aagtggagat ggtgtggccc ctcccgccg gccctctggg tccccagtg tgcgtgtgtg tgcgtttgtc ctctgtgccc atctgcccc gctgtgtgaa ttcaagacag ggcagtgag cactaggcag gtgtgaggag ccctgctgag gtcactgtgg ggcacggttg ccacacggct gtcatttttc acctggtcat tctgtgacca ccacccctc cctcacccg ctcccagtg gcccgggag tgcaggtggg gatggctttg tctttgtctc ctgtctcccg tgggacctgg gaccttaag cgttgcaagt tcctgatttg gacagagtg tggggccttc caggccgtta catacctcct gccaatcttc taactctctg agactgcgag gatctccagg cagggttctc ccctctggag tctgaccaat tacttcaatt tgcttcaaat ggccaattgt gcagaggggc aaagccacag ccacactctt caacggttac caaactgttt ttggaattc acaccaagt cgggccact gcaggcagct ggcacagcgt ggcgcgagg gctgtggaac ggtccccga actgtcagac atgttgatt ttagcgttc cttgttctt caaatcaggt gcccaataa gtgacagca cagctgcttc caaataggag aaaccataa ataggatgaa aatcaagtaa aatgcaaaaga tgtccacact gttttaact tgacctgat gaaaatgtga gcactgttag cagatgccta tgggagagga aaagcgtatc tgaaaatggt ccaggacagg aggatgaaat gagatcccag agtccctaca cctgaatgaa ttatacatgt gctttaccag gtgagtgttc ttctgaagat aaaaaactct agtcctctta aacgtttgcc cctggcgttt cctaaagtac aaaaggtttt taagtcttcg aacagtcctc ttctcatgact ttaacaggat tctgccccct gaggtgtaat tttttgttc tattttttc cactactcc acagccaaca tcacgaggtg taatttttaa tttgatcaga actgttacca aaaaacact gtcagtttta ttgagatggg aaaaatgtaa acctattttt attacttaag actttatgg agagattaga cactggaggt ttttaacaga acgtgtattt attaatgtc aaacacactg aattacaaat gagaaagatc tacaataaat taagattttt gaattgtac ttctgcgtg ctggtttttc tccacaaca cccccccc tccccatgcc cagggtggcc gtggaaggga cggtttacg agctgcagct gagctgtccg tgtccccatgc tccctcagcc agtggaaact gccggaact ttgtccatt cctagttag cctgccacag cctagatgg cagtttttgt ctttcacca atttgaggac tttttttt tgccattatt tcttcagtt tctttcttg cactgatct tctcctctc tctgtgact ccagtgactc agacgttaga cctcttgatg ttttccact ggtccctgag gctctgttc PRELLDVRD VLLLLAAAL LPAMGLRAA WEPVPVGGTR AFALRPGCTY AVGAACTPRA P CGTGARLCA LCFVPVGGCA AQHSALAAP TTLPACRCP RPRPCGRP ICLPPGGSVR LRLICALRRA AGAVRVGLAL EAATGATPSA SPSPSPFLPP NLPEARAGPA RRARRGTSGR GSLKFPMPNY QVALFENEPA GTLILQLHAH YTIEGEERV SYMEGLFDE RSRGYFRIDS ATGAVSTDSV LDRETKETHV LRKAVDYST PPSATTYIT VLVKDTNDHS PVFEQSEYRE RVRENLEVG EVLTIRASDR DSPINANLRY RVLGGAWDVF QLNESGVS TRAVIDREEA AEYQLLVEAN DQGRNPGLS ATATVYIEVE DENDNYPQS EQNYVQVPE DVGLNTAVLR	Homo sapiens
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VQATDRDQGO NAAIHYSILS GNVAGQFYLH SLSGILDVIN PLDFEDVQKY SLSIKAQDGG
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HYRLVDFAST FLGGGSAGPK NPAPTDPDFE QIHNSSGWIT VCAELDREEV EHSYFGVEAV
DHGSPMSSS TSVSITVLDV NDNDPVFTQP TYELRLNEDA AVSSVLTIQ ARDRDANSVI
TYQLTGGNTR NRFALSSQRG GGLITLALPL DYKQEQQYVL AVTASDGTRS HTAHLINVT
DANTHREVFEQ SSHYTVSVSE DRPVGTSTAT LSANDEDGGE NARITYVIQD PVPQFRIDPD
SGTMYTNMEL DYENQVAYTL TIMAQDNQIP QKSDTTTLEI LILDANDNAP QFLWDFYQGS
IFEDAPFSTS ILQVSATDRD SGPNGRLLYT FQGGDDGDGD FYIEPTSGVI RTQRRLDREN
VAVYNLWALA VDRGSPTPLS ASVEIQVTIL DINDNAPFEE KDELELFVEE NNPVGSVVAK
IRANDPDEGP NAQIMYQIVE GDMRHHFQOLD LLNGDLRAMV ELDFEVRREY VLVQATSAP
LVSRATVHIL LVDQNDNPPV LPDFQILENN YVTNKSNSFP TGVICIPAH DPDVSDSLNY
TFVQGNELRL LLLDPATGEL QLSRDLNDR PLEALMEVS SDGIHSVTAF CTRLVTTIITD
DMLTNSITVR LENMSQEKFL SPLALFVEG VAAVLSTTKD DVFEVNVQND TDVSSNILNV
TFSALLPGGV RGQFFPSED L QEIYLNRTL LTTISTQRVL PFDDNICLRE PCENYMKCVS
VLRFDSAPF LSSTTVLERP IHPINGLRCH CPPGFTGDYC ETEIDL CYSD PCGANGRCRS
REGGYTCECF EDTGEHCEV DARSGRANG VCKNGGTVCN LLIGGFHCVC PPGEYERPYC
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GKNCQAMPH PQLFSGESV SWSDNLIIIS VPWYGLMFR TRKEDSVLME ATSGGPTSEF
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AEVTTLGCEV IYNGCPKAFE AGIWPQTKF GQPAAVPCPK GSVGNVVRHC SGEKGWLPPE
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EGYFSNVARN VRRTYLRPFV IVTANMILAV DIEDKENFTG ARVPREDTIH EEFPRELESS
VSFPADFFRP PEEKEGPLLR PAGRRTTPTQ TRPGPGTERE APISRRRRHP DDAGQFAVAL
VIYRTLQQL LPERYDPRR SLRLPHRPII NTPMVSTLVY SEGAPLPRPL ERPLVEFAL
LEVEERTKPV CVFWNHS LAV GGTGWSARG CELLSNRTH VACQCSHTAS FAVLMDISRR
ENGEVLPKLI VTAAVSVLSL AALLVAFVLL SLVRMLRSNL HSIHKLAVA LFLSQLVFEI
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KHYYGKKG I VSLRLTAFL LLLISATWLL GLLAVNRDAL SFHYLFAIFS GLQGPFFVLLF
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SLDSIVRDEG IQKLGVSGL VRGSHGEPDA SLMPRSCKDP PGHDSDSSE LSLDEQSSSY
ASSHSSDSED DGVGAEEKWD PARGAVHSTP KGDAVANHPV AGWPDQSLAE SDSSEDPGPK
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445	74514	5-HT5A Receptor	NM_024012	446	74514	5-HT5A Receptor	NP_076917.1	447	81765	Thromboxane A2 Receptor	NM_001060

448	81765	Thromboxane A2 Receptor	NP_001051.1	<p> ctctgaaggt gtgcctgaac cagtccagc ctgcctgtc tgcagcatcg gcctgatggg gtggtgactg atccctcagg gctccggagc catgtggccc aacggcagtt ccctggggcc ctgtttccgg ccacaaca ttaccctgga ggagagacgg ctgacgect cgcctgggtt cgccgectcc ttctgctggt tgggcttggt ctcacaactg ctggccctga gcgtgctggc ggcgccggcg caggggggtt cgcacacgg ctcctcttc ctcacctcc tctgcccct cgctctacc gacttctggt ggctgctggt gaccgggtacc atcgtggtgt cccagcacgc cgcgtcttc gagtggcacg ccgtggacc tggctgcgt ctctgctgct tcatgggctg cgtcatgac ttcttcggcc tgtcccgtg gctgctggg gccgccatgg cctcagagcg ctacctgggt atcacccggc cttctcggc ccggcggtc gcctcgagc gccgcgctg ggccaccgtg gggctggtgt gggcgccgc gctggcgctg ggcctgctgc ccctgctggg cgtgggtcgc tacacgtgc aataccggg gtccctgtgc tctcgacgc tggcgccga gtccggggac gtggcctcg ggtgctctt ctcacatgct ggccgectct cgtcgggct gtccttctcg ctgaacacgg tcagcgtggc caccctgtgc cactctacc acgggcagga ggcgcccg cagcgtccc gggactcga ggtggagat atggctcagc tccctgggat catgtggtg gccagcgtgt gttggctgccc cttctgtgtc ttcattgcc agacagtgt gcgaacccg cctgccatga gcccgcggc gcagctgtcc cgcaccacgg agaaggact gtcatctac ttgcgctgg ccacctggaa ccagatcctg gaccctggg tgtatctct gtccgcgcg cccgtgctcc ggcgtctcca gctcgctc agcaccggc ccaggtcgt gtccctccag cccagctca cgcagcgtc cgggctgcag taggaagtgg acagagcgc cctcccgcc cttccggcg agcccttgg ccctggaca gcccatctgc ctgttctgag gattcagggg ctgggggtgc tggatggaca gtggcatca gcagcaggtt ttgggttga cccaatcca accggggac ccccaactc tccctgatac tttaccaag cactctcct tccctggccc ctttttccca tccagagctc ccacccctc tctgctccc tcccaacccc aggaaggga tgcagacatt ggaagagggt cttgcatgct tattttttt ttagacgga gtctgtctct gtcccccagg ctggagtga gtggcgcaat ctcagctcac tgcacctcc acctccggg ttcaagcgt tctcctgct cagcctcctg agtagctgg actataggc cgcgccacca cgcgggcta attttgtat ttttagtaga gacggggtt caccgtgtg gccaggtgg tctgaactc ctgacctcag gtgattcacc agcctcagc tcccaagt ctgggatcac aggcataac caccacact ggcattttt ttttttttt tagacggagt ctcactctgt gcccagcct ggagtacagt ggcacgatct cggctcactg caacctccg ctcccggtt caagcgattc tctgacctca gcctcccgag cagctgggat tacaggcgta agccactgag cccggccttg catgctctt gacctgaat ttgacctact tgcggggta cagttgctc ctttgaacc tccaacagg aggcctctgt ccagaaagg ttgaatgtga aacgggggca ccccttttc ttgcaaaa atactctgc ctttggttt at </p>	Homo sapiens
				<p> MWPNSSSLGP CFRPTNITL ERRLIASPF AASFVVGLA SNLLALSVLA GARQGSHTR P SSFLTFLCGL VLTDFLGLV TGTIVVSQHA ALFEHVAADP GCRLCRFMGV VMIFGLSPL LLGAAMASER YLGITRPFSS PAVASQRRW ATVGLVWAAA LAIGLLPLLG VGRYTVQYPG SWCFLTLGAE SGDVAFGLF SMLGGLSVGL SFLNLTVSVA TLCHVYHGQE AAQRPRDSE VENMAQLLGI MVVASVCWLP LLVFIQTVL RNPPAMSPAG QLSRTTEKEL LIYLRVATWN QILDWPVYIL FRAVLRLQ PRLSTRPRSL SIQPLTQRS GLQ </p>	

449	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	(C NM_005283	atggagtctc caggcaacc agagagcacc accctttttt actatgacct tcagagccag A ccgtgtgaga accaggcctg ggtctttgct accctcgcca ccaactgtcct gtactgcctg gtgtttctcc tcagcctagt gggcaacagc ctggtctctgt gggctcctggt gaagtatgag agcctggagt cctcaccaca catcttcac ctcaacctgt gcctctcaga cctgggtgtc gcctgcttgt tgctgtgtg gatctcccca taccactggg gctgggtgct gggagacttc ctctgcaaac tctcaatat gatcttctcc atagcctct cagcagcat cttcttctg accatcatga ccatccaccg ctacctgtcg gtagtgagct cctctccac cctgcgcgtc cccaccctcc gctgcgggt gctggtgacc atggtctgtt ggttagccag catcctgtcc tccatcctcg acaccatctt ccacaagggt ctttctctcg gctgtgatta ttccgaactc acgtggtacc tcacctcctg ctaccagcac aacctcttct tctgctgtc cctggggatt atcctgttct gctacgtgga gatcctcagg accctgttcc gctcacgtc caagcggcgc cacgcacagg tcaagctcat cctgcccac gtggtggcct acttctcag ctggggtccc tacaacttca cctgtttct gcagacgtg ttctggacc agatcatcg gagctgcgag gcaaacagc agctagaata cgcctgtc atctgcgca accctgctt cctccactgc tgcttaacc cgtgtctcta tgtctctgtg ggggtcaagt tccgcacaca cctgaacat gtctccggc agttctggt ctgcgggtg caggcaccca gccagcctc gatccccac tccctgggtg cctgcgcta tgaggcgc tcttctact ga	Homo sapiens
450	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	(C NP_005274.1	MESSGNPEST TFFYYDLQSQ PCENQAVFA TLATTVLYCL VFLLSLVGNS LVLWLVKYE P SLESLTNIFI LNLCLSDLVF ACLLPVWISP YHWGVLGDF LCKLLNMIFS ISLYSSIFFL TIMTIHRYIS VNSPLSLRV FTLRCRLVT MAVVASILS SILDITIFHKV LSSGCDYSEL TWYLTSVYQH WFLFLLSLGI ILFCYVEILR TLFRRSRKRR HRTVKLIFAI VVAYFLSWG YNFTLFLQTL FRTQIIRSC AKQLELYALL ICRNLAFSHC CFNPVLYVFV GVKFRTHLKH VLRQFWFCRL QAPSPASIPH SPGAFAYEGA SFY	Homo sapiens
451	130108	G Protein-Coupled Receptor 75	(NM_006794	gcgatggcga tgatgcctct agtctgcat catccagagc ggcaggcag ctggggtccg A gactgcgaga tggaggagg ggcgctgctg gcaccggca ggcttatctg tcttgggcct ctttgtctac atattgtca tctgtgagct gagccctga ctcactgagt attttgggg agcagaagaa ggagacattt ctctccgaaa atgaactcaa caggccacct tcaggatgcc cccaatgcc cctgcctcca tgtgcctcac tcacaggaa gaaacagcac cctctccag gagggtcttc agtatctcat ccacacagcc accttggta cctgtacttt tctactggcg gtcatcttct gcctgggttc ctatggcaac ttcatgtct tcttgcctt cctcgatcca gccttcagga aattcagaac caactttgat ttcatgatcc tgaacctgtc cttctgtgac ctcttcattt gtggagtga agccccatg ttacaccttg tgttattctt cagctcagcc agtagtatcc cggatgcttt ctgcttcaact ttccatctca ccagttcagg cttcatcact atgtctctga agacagtgc agtgatgcc ctgcaccgc tccggatggt gttggggaaa cagcctaac gcacggctc ctttccctgc accgtactc tcacctgct tctctggcc accagtttca ccttgccc cttggctacc ttgaaaacca gcaagtccca cctctgtctt cccatgtcca gctgattgc tggaaaaggg aaagccattt tgtctctcta tgtgtcgcag ttcaccttct gtgtgtgtg ggtctctgtc tcttacctca tgattgtca gacctgagg aagaacgtc agtcagaaa gtgccccctt gtaatacag tcatgtctt cagaccacag cctttcatgg ggtccctgt gcaggagggt ggagatccca tccagtgtgc catgccggct ctgtatagga accagaatta caacaaactg cagcacgttc agaccgttg atatacaag	Homo sapiens

452	130108 G Protein- Coupled Receptor GPR75	NP_006785.1	<p> agtcccaacc aactggtcac ccctgcagca agccgactcc agctcgtatc agccatcaac ctctccactg ccaaggattc caaagccgtg gtcacctgtg tgatcattgt gctgtcagtc ctggtgtgct gtcttccact ggggatttcc ttggtacagg ttggtctctc cagcaatggg agcttcattc ttaccagtt tgaattgttt ggatttactc ttatatcttt caagtcagga ttaaaccttt ttatatatto tcggaacagt gcagggtctga gaaggaaagt gctctggtgc ctccaataca taggctggg tttttctgc tgcaacaaa agactcgact tcgagccatg ggaaaaggga acctcgagt caacagaaac aaatctctcc atcatgaaac aaactctgcc tacatgttat ctccaaagcc acagaagaaa ttgttgacc aggtttgtgg cccaagtcat tcaaaagaaa gtatggtgag tcccaagatc tctgctggac atcaacactg tggtcagagc agctcgacct ccataacac tcggattgaa ccttactaca gcatctataa cagcagccct tcccaggagg agagcagccc atgtaactta cagccagtaa actcttttgg atttgccaat tcatatatgg ccattgcatta tcacaccact aatgacttag tgcaggaata tgacagcact tcagccaagc agattccagt ccctccgtt taaagtcagt gaggtctatg gatcttatgt aaacagtttt tgtttctgat agtaattggac ttattcttaa ctgagatca gtggcggatc aaaacctaca agattcaact gaaaagtgg cagttatggt tttctttcat ctgatgtgtc agtatctgtt gatttgctt tagtttgtt gacatcttaa gattgatgt gaaagtttta gatttttac cctg </p>	Homo sapiens
453	133117 G Protein- Coupled Receptor RAIG1	NM_003979	<p> FIVFLSFFDP AFRKFTNFD FMILNLSFCD LFICGVTAPM FTFVLFFSSA SSIPDAFCFT FHLTSSGFII MSLTVAIVIA LHLRLMVLGK QPNRTASFPC TVLLTLLLWA TSFTLATLAT LKTSKSHLCL PMSSLIAGKG KAILSLYVVD FTRFCVAVSV SYIMIAQTILR KNAQVRKCPP VITVDASRPQ PFMGVPVQGG GDPIQCMPA LYRNQVYNKL QHVQTRGYTK SPNLVTPAA SRLQLVSAIN LSTAKOSKAV VTCVILVLSV LVCCPLGLIS LVQWVLSNG SFILYQFELE GFTLIFFKSG LNPFIYSRNS AGLRRKRLWC IQYIGLFFC CKQKRLRAM GKGNLEVRN KSSHHEITNSA YMLSPKPQKK FVDQACGPH SKESMVSPKI SAGHQHCGQS SSTPINTRIE PYYSIYNSSP QEESSPCNL QPVNSFGFAN SYIAMHYHTT NDLVQEYDST SAKQIPVPSV ataacagcat gaagtgcctg ggaactggaa taggcgtgtc ctctccctcg accctcccc A tccttgtccc tctgtcacc cctcgtcgtt tccctccctc cggcgagggc cgcctttata acaactgttc agagtgcgag ggcgggatag ctgtcccaagg tctccccag cactgaggag ctgcctgtct gccctcttgc gcgcgggaag cagcaccaag ttcacggcca acgccttggc actagggtcc agaattgcta caacagtccc tgatggttgc cgcaatggcc tgaatccaa gtactacaga ctttgtgata aggtggaagc ttggggatc gtctagaaa cgggtggccac agccggggtt gtacactcgg tggccttcat gctcactctc ccatcctcg tctgcaaggt gcaggactcc aacaggcgaa aaatgctgcc tactcagttt ctcttctcc tgggtgtgtt ggcatcttt ggcctcacct tgccttcat catctgcttc tccgtcctgc caggggccac acgcttcttc ctctttggga tctcttttc tccctgttc tccctgttgg tgattctggg tgtcagtcgt accaagctcg tccgggggag gaagccctt tccctgttgg tgattctggg tctggccgtg ggcttcagcc tagtccagg tagttatcgt attgaatata ttgtcctgac catgaatagg accaagctca atgtcttttc tgagctttcc gctcctcgtc gcaatgaaga ctttgcctc ctgtcacct acgtcctctt cttgatggcg ctgaccttcc tcatgtcctc cttcaccttc tgtgttctct tcacgggctg gaagagacat gggggccaca tctacctcac </p>	Homo sapiens

Homo
sapiens

NP_003970.1

133117 G Protein-
Coupled
Receptor
RAIG1

454

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 KLVGRKRPLS LLVILGLAVG FSLVQDVIAI EYIVLTNRT NVNVFSELSA PRNEDFVLL
 LTYVLFMLAL TFLMSSFTFC GSFTGKWRHG AHILYLTMLLS IAIWVAWITL LMLPDFDRRW
 DDTILSSALA ANGVVFLILAY VSPEFWLLTK QRNPMDYPVE DAFCKPQLVK KSYGVENRAY
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Homo
sapiens

NM_001057

152198 Tachykinin
Receptor 2

455

456 152198 Tachykinin Receptor 2 NP_001048.1 Homo sapiens

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 gggctatggt ttgggtatgg tttgcttgcc cccaccaaa ctcagtgtga aattga
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 IYSMTAIAAD RYMAIVHPFQ PRLSAPSTKA VIAGIWLVAL ALASPQCFYS TVTMDQGATK
 CVVAWPEDSG GKTLLLYHLV VIALIYFELP AMFVAYSVI GLTLWRRVAP GHQAHGANLR
 HLQAKKKFVK TMVLVLTFE ICWLPYHLYF ILGSFQEDIY CHKFIQQVYL ALFWLAMSST
 MYNPIIYCCL NHRFRSGFRL AFRCPCWVTP TKEDKLELTP TTSLSTRVNR CHTKETLFMA

457 152201 Thyrotropin Receptor NM_000369 Homo sapiens

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 caccatatgt ggggacagt agacatggt gtgtacccc aagtcagatg agttcaaccc
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458	152201	Thyrotropin Receptor	NP_000360.1	<p> ggctctctcg ggcaatgtct ttgtctctgct tattctcttc accagccact aaaaactgaa cgcccccg tttctcatgt gcaacctggc ctttgcggat ttctgcatgg gcatgtaccc gtctctcatc gcctctgtag acctctaac tactctgag tactacaac atgccaatga ctggcagaca ggccttgggt gcaacacggc tggttcttc actgtctttg caagcagatt atcggtgtat acgtgacgg tcatcacctt ggagcgtgg tatgcatca ccttcgccat gcgctggac cggaagatcc gcctcaggca ccatgtgccc atcatgggtg gggcgtgggt ttgtgcttc cttctgccc tgcctctttt ggtgggaata agtagctatg ccaagtcag tatctgctg cccatggaca cggagacccc tcttgcctg catatatattg tttttgtct gacgtcaac atagttgctt tctgtcatgt ctgctgctg catgtgaaga tctacatcac agtccgaat ccgcatgaca acccagggga caaagatacc aaaaatgcca agagtaggc tgtgtgatac ttcacgact tcatatgcat ggcaccaatc tcattctatg ctctgtcagc aattctgaac aagcctctca tcaatgttag caactccaaa atcttgctgg tactcttcta tccacttaac tcctgtgcca atccattctt ctatgctatt ttcaccaagg ccttcacag ggatgtgtc atctactca gcaagtttgg catctgtaaa cgccaggctc aggcataccg ggggcagagg gttctctcaa agaacagcac tgatatctag gtcaaaaagg ttaccacaga catgaggcag ggtctccaca acatggaaga tgtctatgaa ctgattgaaa actcccatct aaccccaag aagcaaggcc aaatctcaga agagtatatg caaacgggtt tgtaagttaa cactacata ctcaaatgg taggggaact taaaaataa tagtttcttg aatatgcatt ccaatcccat </p>	Homo sapiens
459	152245	C-C Chemokine Receptor 2	NM_000648	<p> caggactgccc tgagacaagc cacaagctga acagagaag tggaatgaac aaggacgcat A ttccccagta catccacaac atgctgtcca catctcgttc tcggtttatc agaaatacca acgagagcgg tgaagaagtc accacctttt ttgattatga ttacggtgct cctgtcata aatttgacgt gaagcaaat ggggcccac tcctgcctcc gctctactcg ctggtgttca tctttggttt tgtgggcaac atgctggtcg tccctcatctt aataaactgc aaaaagctga agtgcctgac tgacatttac ctgctcaacc tggccatctc tgatctgctt tttcttatta ctctcccat gtgggctcac tctgtgcaa atgagtggtt ctttgggaat gcaatgtgca aattattcac agggctgtat cacatcggtt attttggcg aatcttcttc atcatcctcc tgacaatcga tagatacctg gctattgtcc atgctgtgtt tgctttaaaa gccaggacgg </p>	Homo sapiens

460	152245 C-C	NP_000639.1	Chemokine Receptor 2	MLVLLILNC KKLKCLTDIY ILLTIDRYL AIVHAVFALK ARTVTFGVVT SVITLWVAF ASVPGLIFTK HIGYFGGIFV CQKEDSVYVC GYFPRGWNV FHTIMRNILG LVPLLLIMVI CYSGLKTLT RCRNEKKRHR AVRVIFTMI VYFLFWTPYN IVILLNTFQE FFLSNCEST SQLDQATQVT ETLGMTHCCI NPILYAFVGE KFRRYLSVFF RKHITKRFEK QCPVFYRETV DGVSTSTNTPS TGEQEVSAGL CAGAAATCCT CAGGTCCAC AGAATGAAC ACCTTTTCTA AAATAAAGTC AAGCCAAGCT A GTCCTACCCC AAAGAAATC CTAGCAAGCA AAGGTGGCTT CCTTCTGTAG GCCCAGCCA GGTGTGTCCA ACCGTAGGAG CCACAGCTCA GAGATCAGAG TGACTTAACA GTTAGAGGGC ACTTGATGAG TAAGGTGAA TAGGGAACCC AAGTCAGACG ACACCTCCCT TCTGAGTCCC AACCATGTCT ACATCTGGAG AGAACACAGTT AAGTCAAGGG ATCACAGACT TGTGATTAGA GACTGCCAGG GTCCATATGA CCAAGCGGGG GTCCCAGGTG TGAAGCTGGG GTTGAGGATC CATTATCTGA ATTTTCCACT CTATGGATGA TCACCTTTAT TCTTTTCTT TTTCTGAATT TATTTCCATT TGTATTATCC TAAATTCCTT GGTAGATCAC CTGTGAAAGC TTGCAACTGT CTGATAAGAA TAAAGGGGGA AGGATTTGAC TTTACAGCAG AGACTTCAGA AGGAGTCCTC TCTAGGAGCA AATTGGGGGC AATCCAGTGG GAAGAGGTG GAAGACTGCA CTTGAGCTGC GTTTGACAA CAGGCACACA ATCTTTACTT ACTTTTCAGG CTGCTTTGAG GT	Homo sapiens
461	152299 Interleukin- 8 Receptor A	LG5459		tcacctttgg ggtggtgaca agtgtgatca cctggttggg ggtgtgtgtt ggttctgtcc caggaatcat ctttactaaa tgccagaaa agattctgt ttatgtctgt ggccttatt ttccacagg atggaataat ttccacaaa taatgaggaa catttgggg cgtgtcctgc cggtgtcat catgtctatc tgctactcg gaactcctgaa aacctgctt cgggtgcgaa acgagaagaa gaggcatagg gcagtggag tcatcttcac catcatgatt gtttactttc tcttctggac tccctataac attgtcattc tctgaaacac cttccaggaa ttcttcggcc tgagtaactg tgaagcacc agtcaactg accaagccac gcagtgaca gagactcttg ggatgactca ctgtgcatc aatcccatca tctatgcctt cgttggggag aagttcagaa ggtatctctc ggtgttcttc gaaaagcaca tcaccaagcg cttctgcaaa caatgtccag ttttctacag ggagacagtg gatggagtga cttcaacaaa cagccttcc actggggagc aggaagtctc ggctggttta taaaacgagg agcagtttga ttgttgttta taaagggaga taacaactg tatataacaa caaacttcaa ggtttgttg aacaatagaa acctgtaaaag caggtgccc a gaaacctcag gctgtgtgt actaatcac actatgtcac ccaatgcata tccaacatgt gctcagggaa taatccagaa aaactgtgg tagagacttt gactctccag aaagctcatc tcagctcttg aaaaatgcct cattaccttg tgctaactct ctttttctag tcttcataat ttcttcactc aatctctgat tctgtcaatg tcttgaatc aagggccagc tgagggtgaa gaagagaatg tgacaggcac agatgaatgg gagtgggga tagtggggtc agggctgaga ggagaaggag ggagacatga gcatggctga gctgggaca agacaaaggt gagcaaaagg ctacgcatt cagccaggag atgatactgg tcttagccc catctgccac gtgtatttaa ccttgaaggg ttaccagggt cagggagagt ttgggaactg caataacctg ggagttttgg tggagtccga tgattctct ttgcataagt gcatgacata tttttgcttt attacagttt atctatgca cccatgcacc ttacatttga atctatgaa atatcatgct ccattgttca gatgcttctt agccacatc cccctgtcta aaaaattcaga aaattttgt ttataaaga tgcatatatc atgatatgct aatatatga tatgcaatat aaaatttag MLSTSRSRFI RNTNESGEV TTFEDYDGA PCHKFDVKQI GAQLLPPLYS LVFIFGVGN P MLVLLILNC KKLKCLTDIY ILLTIDRYL AIVHAVFALK ARTVTFGVVT SVITLWVAF ASVPGLIFTK HIGYFGGIFV CQKEDSVYVC GYFPRGWNV FHTIMRNILG LVPLLLIMVI CYSGLKTLT RCRNEKKRHR AVRVIFTMI VYFLFWTPYN IVILLNTFQE FFLSNCEST SQLDQATQVT ETLGMTHCCI NPILYAFVGE KFRRYLSVFF RKHITKRFEK QCPVFYRETV DGVSTSTNTPS TGEQEVSAGL CAGAAATCCT CAGGTCCAC AGAATGAAC ACCTTTTCTA AAATAAAGTC AAGCCAAGCT A GTCCTACCCC AAAGAAATC CTAGCAAGCA AAGGTGGCTT CCTTCTGTAG GCCCAGCCA GGTGTGTCCA ACCGTAGGAG CCACAGCTCA GAGATCAGAG TGACTTAACA GTTAGAGGGC ACTTGATGAG TAAGGTGAA TAGGGAACCC AAGTCAGACG ACACCTCCCT TCTGAGTCCC AACCATGTCT ACATCTGGAG AGAACACAGTT AAGTCAAGGG ATCACAGACT TGTGATTAGA GACTGCCAGG GTCCATATGA CCAAGCGGGG GTCCCAGGTG TGAAGCTGGG GTTGAGGATC CATTATCTGA ATTTTCCACT CTATGGATGA TCACCTTTAT TCTTTTCTT TTTCTGAATT TATTTCCATT TGTATTATCC TAAATTCCTT GGTAGATCAC CTGTGAAAGC TTGCAACTGT CTGATAAGAA TAAAGGGGGA AGGATTTGAC TTTACAGCAG AGACTTCAGA AGGAGTCCTC TCTAGGAGCA AATTGGGGGC AATCCAGTGG GAAGAGGTG GAAGACTGCA CTTGAGCTGC GTTTGACAA CAGGCACACA ATCTTTACTT ACTTTTCAGG CTGCTTTGAG GT	Homo sapiens

agctgttaag tcactctgat ctctgactgc agctcctact gttggacaca cctggccggt A
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463	152299 Interleukin-8 Receptor A	NP_000625.1	acaggaatga atgcatgctg aaaagaccac tctttt	MSNITDPQMW DFDDLNTGM PPADEDYSPC MLETETLNKY VVIAAYALVF LLSLLGNSLV P MLVILYSRVG RSVTDVYLLN LALADLLFAL TLPWAASKV NGWIFGTFLC KVSLLKEVN FYSGILLAC ISVDRTYLAIV HATRTLQKR HLVEFVCLGC WGLSMNLSLP FFLFRQAYHP NNSSPVCYEV LGNDTAKWRM VLRIPLHTFG FIVPLFVMLF CYGFTLRLTF KAHMGQKHRA MRVIFAVVLI FLLCWLPYNL VLLADTLMRT QVIOESCERR NNIGRALDAT EILGFLHSCL NP11YAFIGQ NFRHGFLLKIL AMHGLVSKF LARHRTSYT SSSVNVSSNL	Homo sapiens
464	158822 Mas Proto-Oncogene	NM_002377	cctgagcct cctcatgagat gggctcaaacg tgacatcatt tgggtgtgag gaaccacaga A acatctcaac tggcaggaac gcctcagtcg ggaatgcaca tcggcaaatc cccatcgtgc actgggtcat tatgagcatc tccccagtg ggtttgttga gaatgggatt ctcctctggt tcctgtgctt ccgagtgaga agaaatccct tcaactgtcta catcaccac ctgtctatcg cagacatctc actgctcttc tgaattttca tctgtctat cgaactatgt ttagattatg agctttcttc tggccattac tacacaattg tcacattatc agtgactttt ctgtttggct acaaacagg cctctatctg ctgacggcca ttagtggtga gagtgccctg tcagtccctt acccatctg gtaccgatgc catgccccca agtaccagtc ggcattggct tgtgcccttc tgtgggctct tcttgcttg gtgaccacca tggagtatgt catgtgcac gacagagaag aagagagtca ctctcggaat gactgcgag cagtcacatc cttatagcc atcctgagct tcctggctt cagccctc atgctggtg tttacatagc cagaccatc cttggtcgtg aagatccgga agaacacgtg ggttcccat tcctccaagc tttacatagc catcatggtc accatcata tattcctcat ctctgctatg cccatgagc tcctttacct gctgtactat gattattggt cgaccttgg gaacctacac cacattccc tgctcttctc cacaatcaac agtagcgcca acctttcat ttacttctt gtgggaagca gtaagaagaa gagattcaag gattccttaa aagtgttct gaccaggct ttcaaatg aaatgaacc tcggcgccag aaagacaatt gtaatacgtt cacagttgag actgtcgtc aagaactgtt agggaaagt tggataaaaa tggtggaaca caggtcatt ttagttgtg cttggaatat gacttaagta tctcctaaat gtgatacaga agaacatctc atcccatg catgagatc taattaatga tgaaa MDGSNVTsfV VEEPTNISTG RNASVGNHR QIPVHWVIM SISPVGFVEN GILLWFLCFR P MRNPFVYI THLSIADISL LFCIFILSID YALDYELSSG HYXTIVTSLV TFLFGYNTGL YLLTAISVER CLSVLYPIWY RCHRPKYQSA LVCALLWALS CLVTTMEYVM CIDREEESH RNDGRAVIF IAILSFLVFT PMLVSSSTIL VVKIRKNTWA SHSKLYIVI MVTIIFLIF AMPMRLLYLL YYEYWTSGN LHHISLLFST INSSANPFY FVVGSSKKR FKESLKVLT RAFKDEMQR RQKDNCTVT VETV	Homo sapiens	
465	158822 Mas Proto-Oncogene	NP_002368.1	atgctgcgg actggaagag ctccttgatc ctcattggct acatcatcat cttcctcaact A ggcctccctg ccaacctct ggccttgctg gcctttgtg ggcggatccg ccagccccag cctgcacctg tgcacatct cctgctgagc ctgacgctg cgcacctcct cctgctgctg ctgctgccc tcaagatcat cgaggctcg tcgaacttc agcagatct actgcagcac tggctcctg gtctgcgcc tcacagattt tggcttctac agcagatct actgcagcac tggctcctg gcgggcatca gcatcgagcg ctacctggga gtggcttcc cctgtcagta caagctctc cgccggcctc tgtatggagt gattgcagct ctgggtggct ggttatgtc ctttgggtcac tgcaccatcg tgatcatcgt tcaatacttg aacacgactg agcaggtcag aagtggcaat	Homo sapiens	
466	159152 G Protein-Coupled Receptor GPR43	NM_005306			Homo sapiens

467	159152 G Protein- Coupled Receptor GPR43	NP_005297.1	gaaattacct gctacagaga cttaccgat aaccagtgg acgtggtgct gcccgctgcg ctggagctgt gcctggtgct cttcttcac cccatggcag tcaccatctt ctgctactgg cgttttgtgt ggatcatgct cttccagccc ctgtggggg cccagaggg gcgcccagcc gtgggctgtg ctgtgtgac gctgtcaat ttctgtgtg gcttcggacc ttacaacgtg tcccacctgg tggggtatca ccagagaaaa agccctgtg ggcgtcaat agccgtggtg ttcagttcac tcaacgccag tctggacccc ctgctcttct attctcttc ttcagtgggtg cgcagggcat ttgggagagg ctgtcaggtg ctgcggaatc agggctcctc cctgttggga cgcagaggca aagacacagc agaggggaca aatgaggaca ggggtgtggg tcaaggagaa gggatgcaa gttcgactt cactacagag tag MLPDMKSSLI LMAYIIIFLT GLPANLLALR AFVGRIRQPQ PAPVHILLS LTLADLLLLL P LLPFKIEAA SNFRWYLPKV VCALTSGFY SSIYCSWLL AGISIERYLK VAFPVQYKLS RRPLYGVIAA LVAWMISFGH CTIVIIQYL NTTEQVRSNG EITCYENFTD NQLDVLVPR LELCLVLFPI PMAVTIFCYW RFWMILSQP LVGAQRRRRA VGLAVVTLLN FLVCFGPYNV SHLVGYHQRK SPWRSIAV FSSLNASLDP LLFYESSVV RRAFGRGLQV LRNQSSLLG RRGKDTAEGT NEDRGVGQGE GMPSSDFTTE	Homo sapiens
468	159973 Vasoactive Intestinal Polypeptide Receptor 1	NM_004624	ggccacaggc cagcgccact ctgccaggct cccggccatc gccggcctgg tgcgcccgc A gccagctctt tgcccgcgcg gggccgcgcg cgcggggtc agggcagacc atgcgcccgc caagtccgct gccgcgcgcg tggctatgct tgcctggcag cgcctctgcc tgggcccctg ggccggcggg cggccagcgc gccaggctgc agagagatg tgactatgtg cagatgatcg aggtgcagca caagcagctgc ctggaggagg cccagctgga gaatgagaca ataggctgca gcaagatgtg ggacaacctc acctgctggc cagccacctc tcggggccag gtagtgtct tggcctgtcc cctcatctc aagctctct cctccattca agcccgcaat gtaagccgca gctgcaccga cgaaggctgg acgcacctgg agcctggccc gtaccccat gcctgtggtt tgatgacaa ggagcagagt ttgatgagc agcagacctt gtctacggt tctgtgaaga ccggtacac cattggctac ggctgtccc tgcccacct tctggtgcc acagctatcc tgagcctgtt caggaaagtc cactgcacgc ggaactacat ccacatgac cttctcatat ccttcactct gagggtgcc gctgtcttca tcaaaagactt ggccctcttc gacagcgggg agtcggacca gtgctccgag ggctcgggtg gctgtaaggc agccatggtc tttttccaat attgtgtcat ggctaaactt ttctggctgc ttctggctgc cctctacctg tacacctgc ttgcccgtct cttctctct gagcggaaat acttctgggg gtacatactc atcggctggg gggtacccag caccatcac atgggtgga ccatcgccag gatccatttt gaggattatg gggtcgtggga caccatcac tctcactgt ggtggatcat aaaggggccc atcctcacct ccatcttgtt aaacttcac ctgtttattt gcatcatccg aatcctgctt cagaaactgc ggcccccaga tatcagggaag agtgacagca gtccatactc aaggtagcc aggtccacac tctgtgtgat ccccctgttt ggagtacact acatcatgtt cgccttcttt ccggacaatt ttaaagcctga agtgaagatg gtctttgagc tcgtcgtggg gtctttccag ggttttgtgg tggctatcct ctactgctt ctcaatgggt aggtgcaggc ggagctagg cggaagtggc ggcgtggca cctgcagggc gtccctgggt ggaaccccaa ataccggcac ccgtcgggag gcagcaacgg cgccacgtgc agcacgcagg ttccatgct gacccgcgtc agcccaggtg cccgcgctc ctccagctt caagccgaag tctcctgtgt ctgaccacca ggatccacgg ggcccaaggc ggcccctccc gcccttctcc actcaccccc gcagacgccc gggacagagg	Homo sapiens

469	159973 Vasoactive Intestinal Polypeptide Receptor 1	NP_004615.2	<p>cctgccccg cgcggccagc cccggccctg ggctcggagg ctgcccccg ccccttggtc</p> <p>tctggtccgg aactcctag agaacgcagc cctagagcct gcctggagcg tttctagcaa</p> <p>gtgagagaga tgggagctcc tctcctggag gattgcaggt ggaactcagt cctagagctc</p> <p>ctcctccaaa ggcctccctac gccaatcaag ggcaaaaagt ctacatactt tcatectgac</p> <p>tctgccccct gctggctctt ctgcccatt ctgagaaagc aaccgggtga tcctcaaaac</p> <p>aactgggtgt gacctgaggg cagaaaggt ctgcccggg aaggtcacca gcaccaaac</p> <p>cacggtagtg cctgaaattt caccattgct gcaagttcc ttgggttaa gcattaccac</p> <p>tcaggcattt gactgaagat gcagctcact accctattct ccttttacgc ttagttatca</p> <p>gctttttaaa gtgggttatt ctggagtttt tgttgagaga gcacacctat cttagtgtt</p> <p>ccccaccgaa gtggactggc cctgggtgca gctgggtgg aggacgtgc aaccagga</p> <p>ctgagggact ctgaagcctc tgggaaatga gaaggcagcc accagcgaat gctaggtctc</p> <p>ggactaagcc tacctgctct ccaagtctca gtggcttcat ctgtcaagtg ggatctgtca</p> <p>caccagccat acttatctct ctgtgctgtg gaagcaacag gaatcaagag ctgcctcct</p> <p>tgccaccaca cctatgtgcc aactgttga actaggtcga gagatgtgca cccatgggt</p> <p>ctgacagaaa gcagatacct caccctgcta cacatacagc atttgaactc agatctgtct</p> <p>gataggaaatg tgaagcacg gactcttact gctaaacttt gtgtatcgta accagccaga</p> <p>tcctcttggt tattgttta ccaactgtat tattaatgcc attatcctga attccccctg</p> <p>ccaccacc cctcctggcg tgtggctgag gaggcctcca tctcatgtat catctggata</p> <p>ggagcctgct ggtcacagcc tcctctgtct gcccttcacc ccagtggcca ctacgtctcc</p> <p>taccacacc tctgccagaa gatccccca gactgcaac aggttgtgc aacaataaat</p> <p>gtggcttgg a</p>	Homo sapiens
470	160040 Vasoactive Intestinal Polypeptide Receptor 2	NM_003382	<p>MRPPSPLPAR wlc</p> <p>IGCSKWDNL TCWPATPRGQ VVVLACPLIF KLFSSIQGRN VSRCTDEGW THLEPGPYPI</p> <p>ACGLDDKAAS LDEQQTMYG SVKTYTIGY GLSLATLLVA TAILSFRKL HCTRNIIHMH</p> <p>LFISFILRAA AVFIKDLALF DSGESDQCSE GSVGCKAAMV FFQYCVMANF FWLLVEGLYL</p> <p>YTLAVSFFS ERKYFWGYIL IGWGPSTFT MWTIARIHF EDYGCWDTIN SSLWIIKGP</p> <p>ILTSILVNEI LFICIIRILL QKLRPPDIRK SDSSPYSLA RSTLLIPLF GVHYIMFAFF</p> <p>PDNFKPEVKM VFELVGSFQ GFVVAILYCF INGEVQALR RKWRWHLQG VLGWNPKYRH</p> <p>PSGSGNGATC STQVSMLTRV SPGARRSSF QAESLV</p> <p>cgggacgagg ggcgcgcccc cgcgctcggg gcgctcggct acagctgcgg ggcgcgaggt A</p> <p>ctccgcgcac tcgctcccg cccatgctgg agcgcgcgga acccgggga cctaggacgg</p> <p>aggcgcgagg cgtggcggg ccccgccac gctgagctcg ggatgcggac gctgctgcct</p> <p>cccgcgctgc tgacctgctg gctgctcgc cccgtgaaca gcattaccc agaatgccga</p> <p>tttcatctgg aaatacagga ggaagaaaca aaatgtacag agcttctgag gctcaaaaca</p> <p>gaaaaacaca aagcctgcag tggcgtctgg gacaacatca cgtgctggcg gctgccaat</p> <p>gtggagagaga ccgtcacggt gccctgccc aagtcttca gcaattttta cagcaaaagca</p> <p>gaaacataaa gcaaaaactg tacgagtgc agatgttcac agacgttccc agatttcgtc</p> <p>gatgcctgtg gctacagcga cccggaggat gagagcaaga tcacgtttta tattctggtg</p> <p>aaggccattt ataccctgg ctacagtgc tctctgatgt ccttgcaac aggaagcata</p> <p>attctgtgcc tcttcaggaa gctgcactgc accaggaatt acatccacct gaacctgttc</p> <p>ctgtccttca tctgagagac catctcagtg ctggtcaagg acgacgttct ctaactccagc</p>	Homo sapiens

471	160040 Vasoactive Intestinal Polypeptide Receptor 2	NP_003373.1	<p>tctggcagct tgcactgccc tgaccagcca tctctctggg tgggtgcaaa gctgagcctg gtcttctgc agtactgcat catggccaac ttcttctggc tgcgtgtgga ggggctctac ctccacacc tcttggtggc catgctcccc cctagaaggt gcttctctggc ctacctctcg atcgatggg gctctccac cgtctgcac ggtgcacgga cctgggtggg gctctactta gaagacacc gttgctggga taaaaagac cacagtggc cctgggtggg catacgaata cgaattttaa ttctcatcat cgtcaatttt gctctttca ttagtattat acgaattttg ctgcagaagt taacatcccc agatgtcggc ggcaacgacc agtctcagta caagaggctg gccaagtcca cgtctctgct tatecgtg ttcggcgctc actacatggt gtttgcctg tttccatca gcatctctc caataccag atactgtttg agctgacct cgggtcgttc caggcctgg tgggtggcct cctctactgt ttctgaaca gtgaggtgca gtgcgagctg aagcgaaaat ggcaagccg gtgcccagcc cgtcccgga gccgggatta cagggtctgc ggttctctct tctccacaa cggctcggag ggccctctgc agttccacc cgcgtcccca gccagtcct tctgcacaa ggagacctg gtcatctagc cccacctg cctgtcggac gcgggggag gccacgggt cggggtctct cgggggctga gacgcgggt tctctctcc agatgcccga gcacgtgtc gggcaggtca gcgcggtct gactcgtca agctggtgtg ccactaaacc ccatacctg</p> <p>MRLLPPALL TCWLLAPVNS CWRPANVGET VTVPCKVFS TFYILVKAY TLGYSVLSMS DVLYSSGTL HCPDQSSWV FLAYLIGWG LPTVCIGAWT SIIRILLQKL TSPDVGNDDQ LCLSFQGLV VAVLYCFLNS FHRASRAQSF LQTETSVI</p>	Homo sapiens
472	160055 Motilin Receptor (GPR38)	NM_001507	<p>atggggagcc cctggaacgg cagcgacggc cccgaggggg cgcgggagcc gccgtggccc A gcgctgcgc cttgcgacga gcgcccctgc tcgccccttc ccttgggggc gctggtgccc gtgacggctg tgtgctgtg cctgttcgtc gtgcgggtga cgggcaacgt ggtgaccgtg atgctgatcg ggcgtaccg ggacatcgg accaccacca acttgtaact ggcagacatg gccgtgtccg acctactcat cctgctcgg ctcgctctgc accgtaccg cctctggcg tcgcgccct ggggtgttcgg gccgtgtc gcgctcgtg tgcgctctgt cctctacgt gggcgagggc tgacactag ccacgtgct gcacatgacc gcgctcagcg tcgagcgcta cctggccatc tgccgcccgc tccgcgccg cgtcttggtc acccgggcc gcgtccgcgc gctcatcgct gtgctctggg ccgtggcgct gctctctgc ggtccccttc tgttctctgt gggcgctcag caggaccccg gcatctccgt agtcccgcc ctcaatggca ccgcgcggat cgcctctctg cctctcgct cgtcgccgc tctctggctc tcgcgggcg caccgcctc cccgcctcg gggcccaga ccgcgagcg ccgcgcgctg ttcagccgc aatgcggcc gagccccg cagctggggc cgtgctgtgt catgctgtgg gtacacacg cctactctt cctgcccc ctgtgcctca gcatcctcta cgggtcctc gggcgggagc tgtggagcag ccggcgggcc ctgcgagcc cggccgcctc gggcggggag agagccacc ggacagccgt ccgctcctg ctggtggtgg tctggcatt tataattgc tgggtgcct tccacgttg cagaatcatt tacataaaca cggaagattc gcggtatgat tacttctctc agtactttaa catcgtcgct</p>	Homo sapiens

473	160055	Motilin Receptor (GPR38)	NP_001498.1	ctgcaacttt tctatctgag cgcattctatc aaccaatcc tctacaacct catttcaag aagtacagag cggcgccctt taaactctg ctcgcaagga agtccaggcc gagaggcttc cacagaagca gggacactgc gggggaagt ctaggggaca ctaggagaga cacggtgggc tacaccgaga caagcgctaa cgtgaagacg atgggataa MGSPWNGSDG PEGAREPWP ALPPCDERRC SPFLGALVP VTAVCLCLFV VGVSGNVTV P MLIGRYRDMR TTTNLYLGM AVSDLLILG LPFDLYRLWR SRPWVFGPLL CRLSLYVGE CTYATILHMT ALSVERILAI CRPLRARVL TRRRYRALIA VLWAVALLSA GPFLFLVGE QDPGISVVP LINGTARIASS PLASSPPLWL SRAPPSPPS GPETAEEAAL FSRECRPSPA QLGALRVMLW VTTAYFFLFF LCLSLYGLI GRELWSSRRP LRGPAAAGRE RGHRTVRL LVVLAFLIC WLPFHVGRII YINTEDSRM YFSQYFNIVA LQFLYLSASI NPILYNLISK KYRAAAFKLL LARKSRPRGF HRSRDTAGEV AGDTGGDTVG YTETSANVKT MG atggacctgc ccccgacgt ctccttcgc ctcctatgag cgcctttgc gctgggcttc A cgcctcaacg tccctgacat ccgagggcg agggcccaag cccggctccg tctcaccct agcctggtct acgcccga a cctgggctgc tccgacctgc tgcagacagt ctctctgcc ctgaaggcgg tggaggcgct agcctccggg cctgcccctc tgccggccctc gctgtgcccc gtcttcggcg tggcccaatt ctcccaactc tatgcggcg ggggcttctc ggcggccctg agtgaaggcc gctacctggg agcagccttc ccttgggt accaagcctt ccggaaggcc tgctattcct ggggggtgtg cgcggccatc tgggcccccg tccctgtgca cctgggtctg gtctttgggt tggaggctcc aggaggtcgg ctggaccaca gcaacacctc cctgggcatc aacacaccgg tcaacggctc tccggctcgc ctggaggcct gggaccggc ctctgcccgc ccggcccgct tcagcctc tctcctgctc ttttttctg ccttgccatc cacagccttc tgctacgtgg cctgcctccg ggcactggcc cgtccggcc tgacgacag gcggaagctg cgggcgcctt ggggtggcgg cggggccctc ctacagctgc tgcctcgcg aggaccctac aacgcctcca acgtggccag ctctcgtac cccaatctag gagctcctg gcggaagctg gggctcatca cgggtgcctg gagtgtgtg cttaatccgc tggtagccg ttacttggga aggggtcctg gcctgaagac agtgtgtgc gcaagaacgc aagggggcaa gtcccagaag taa	Homo sapiens
474	160059	G Protein- coupled Receptor GPR40	NM_005303	atggacctgc ccccgacgt ctccttcgc ctcctatgag cgcctttgc gctgggcttc A cgcctcaacg tccctgacat ccgagggcg agggcccaag cccggctccg tctcaccct agcctggtct acgcccga a cctgggctgc tccgacctgc tgcagacagt ctctctgcc ctgaaggcgg tggaggcgct agcctccggg cctgcccctc tgccggccctc gctgtgcccc gtcttcggcg tggcccaatt ctcccaactc tatgcggcg ggggcttctc ggcggccctg agtgaaggcc gctacctggg agcagccttc ccttgggt accaagcctt ccggaaggcc tgctattcct ggggggtgtg cgcggccatc tgggcccccg tccctgtgca cctgggtctg gtctttgggt tggaggctcc aggaggtcgg ctggaccaca gcaacacctc cctgggcatc aacacaccgg tcaacggctc tccggctcgc ctggaggcct gggaccggc ctctgcccgc ccggcccgct tcagcctc tctcctgctc ttttttctg ccttgccatc cacagccttc tgctacgtgg cctgcctccg ggcactggcc cgtccggcc tgacgacag gcggaagctg cgggcgcctt ggggtggcgg cggggccctc ctacagctgc tgcctcgcg aggaccctac aacgcctcca acgtggccag ctctcgtac cccaatctag gagctcctg gcggaagctg gggctcatca cgggtgcctg gagtgtgtg cttaatccgc tggtagccg ttacttggga aggggtcctg gcctgaagac agtgtgtgc gcaagaacgc aagggggcaa gtcccagaag taa	Homo sapiens
475	160059	G Protein- coupled Receptor GPR40	NP_005294.1	MDLPPQLSFG LYVAAFALGF PLNVLAIRGA TAHARLRTP SILVAINLGC SDLLLTVSLP P LKAVEALASG AWPLPASLCP VFAVAHFFPL YAGGGFLAAL SAGRYLGAFA PLGYQAFRRP CYSWGVCAAI WALVLCGLGL VFGLEAPGGW LDHSNTSLGI NTPVNGSPVC LEAWDPASAG PARFSLSLLL FFLPLAITAF CYVGCLRALA RSLGTHRRKL RAAWVAGGAL LTLLLCVGPY NASNVASFLY PNLGGSWRKL GLITAWSV LNPLVTGYLG RGPGLKTVCA ARTQGGKSQK atgcacaccg tggctacgtc cggaccacaac cgtcctcggg gggcaccggc caacgcctcc A ggctgcccgg cgtgtggcgc caacgcctcg gacggcccag tcccttcgcc gcggggccctg gacgcctggc tctgtccgct ctcttcggcg gctgtatgc tgcctggcctt ggtggggaac tcgctgttca tctacgtcat ctgcccgcac aagccgatgc gacccgtgac caacttctac atcgccaacc tggcgggccac ggacgtgacc tctcctcgt gctgcgtccc ctccacggcc ctgctgtacc cgtgcccgg ctgggtgctg ggcgacttca tgtgcaagt cgtcaactac atccagcagg tctcggtgca gcccacgtgt gccactctga cgcctatgag tgtggaccgc tggtagctga cgggtgtccc gttgcgcgcc ctgcaccgcc gcacgcccc cctggcgctg gctgtcagcc tcagcatctg gtaggctct cgtggcggtg ctagcgccgtg ctagcgccctg	Homo sapiens
476	160189	G Protein- Coupled Receptor GPR54	NM_032551	atgcacaccg tggctacgtc cggaccacaac cgtcctcggg gggcaccggc caacgcctcc A ggctgcccgg cgtgtggcgc caacgcctcg gacggcccag tcccttcgcc gcggggccctg gacgcctggc tctgtccgct ctcttcggcg gctgtatgc tgcctggcctt ggtggggaac tcgctgttca tctacgtcat ctgcccgcac aagccgatgc gacccgtgac caacttctac atcgccaacc tggcgggccac ggacgtgacc tctcctcgt gctgcgtccc ctccacggcc ctgctgtacc cgtgcccgg ctgggtgctg ggcgacttca tgtgcaagt cgtcaactac atccagcagg tctcggtgca gcccacgtgt gccactctga cgcctatgag tgtggaccgc tggtagctga cgggtgtccc gttgcgcgcc ctgcaccgcc gcacgcccc cctggcgctg gctgtcagcc tcagcatctg gtaggctct cgtggcggtg ctagcgccgtg ctagcgccctg	Homo sapiens

477	160189 G Protein- Coupled Receptor GPR54	NP_115940.1	<p>cacgcctgt caccgggccc gcgcgcctac tgcagtgagg ccttccccag ccgcggcctg</p> <p>gagcgcctc tgcactgta caacctgtg gcgctgtacc tgctgccgt gctcgccacc</p> <p>tgcgcctgt atgcggccat gctgcgccac ctgggccggg tgcgcgtgcg ccccgccccc</p> <p>gccgatagc cctgcaggg gcaggtgctg gcagagcgcg caggcgccgt gcgggccaag</p> <p>gtctgcggc tgggtgcggc cgtggtcctg ctcttcggg cctgctggg ccccatccag</p> <p>ctgttcctgg tgcagaggc gctgggcccc gcgggctctt ggcacccacg cagctacgcc</p> <p>gcctacgcgc ttaagacctg ggtcacctgc atgtcctaca gcaactccgc gctgaacccc</p> <p>ctgctctac ccttcctggg ctgcacttc cgacaggcct tccgcgcgt ctgccctgc</p> <p>gcgcgcgcc gcccccgcg cccccgcg cccggacct cggacccgc agccccacac</p> <p>gcggagctgc accgcctggg gtccacccc gccccgcga ggcgcagaa gccagggagc</p> <p>agtgggctgg ccgcgcggc gctgtgcgc ctgggggagg acaacgcccc tctctga</p> <p>MHTVATSGEN ASWGAPANAS GCPGCGANAS DGFPVSPRAV DAWLVPLFFA ALMLLGLVGN P</p> <p>SLVIYVICRH KPMRTVTNFY IANLAATDVT FLCCVPFTA LLYPLPGWVL GDFMCKFVNY</p> <p>IQQVSVQATC ATLTAHSVDR WYTVFPLRA LHRRTPLAL AVSLSIWVGS AAVSAPVLAL</p> <p>HRLSPPRAY CSEAFPSRAL ERAFALYNLL ALYLLPLLAT CACYAAMLRH LGRVAVRPAP</p> <p>ADSALQGQVL AERAGAVRAK VSRLVAUVL LFAACWGP IQ LFLVLQALGP AGSWHPRSVA</p> <p>AYALKTWIHC MSYSNSALNP LLYAFLGSHF RQAFRRVPCP APRRRRPRR FGPSDPAAPH</p> <p>AELHRLGSHP APARAQKPGS SGLAARGLCV LGEDNAPL</p> <p>CCGCGGCCAC GTGCCTGCTG CTGCGCGCCT ACGTGACGGC GCATTGTCTAT GCACTGGCTG A</p> <p>ACCTATCATG AGACCTGTCT GCTGCTCACA CTGTATGGAA CCCACATCTG CCTACATCTG</p> <p>CACCTGTATG CAATGTCTCT ACTTCTTCTA TGATGTCTG TGAATGTCTG TACATGTCTG</p> <p>ACTGCGCTAT TCACCGGATC CTGACAACT TTATCAGCCA GACTGCCGGG GCGGGCTGCG</p> <p>ATGCTGTGGT CCATTACTTG CTAAGGACCA GACCGCGGGG GCACATGCGC CTCCTCTTCC</p> <p>TTCTGTGACA CCCAGCGTGA CATAATCATT ACCACGGGTG ATAGCCAGAC TGCTGCGAGC</p> <p>AACCCGCCAC CTGCAGCCA AGCTGAGCT TTCAGGCACA CCATTGCTC GCAAAGACTT</p> <p>GCGCCATGTG TCCCACTCAG TGTCTTACAC CCAGCTGAGG T</p> <p>cagcctctc acagctccc atagcctgga cctgcggcc ctccctccag gaccgagggg A</p> <p>ctcccaaggg aaactcaggc gtgtgctggt cccaatgta gtgaaaccca gctggggggc</p> <p>tggccccctg gagggggta ccgagtgcc taccagtgac cttggagaga tccacaactg</p> <p>gaccgagctg ctgacctct tcaaccacac tttgtctgag tgccacgtgg agctcagcca</p> <p>gagcaccag cgcgtggtcc tctttgccc ctacctggc atgtttgtgg ttgggctggt</p> <p>ggagaacctc ctggtgat at gcgtcaactg gcgcggctca ggcggggcag ggctgatgaa</p> <p>cctctacatc ctcaacatgg ccatcgcgga cctgggcatt gtctgtctc tgcccgtgtg</p> <p>gatgctggag gtacagctgg actacacctg gctctggggc agcttctcct gccgcttcac</p> <p>tcactacttc tactttgtca acatgtatag cagcatcttc ttctgtggt gcttcagagt</p> <p>cgaccgctat gtacacctca ccagcgccc cccctcctgg cagcgttacc agcaccgagt</p> <p>gcggcgggcc atgtgtgcag gcatctgggt cctctcgccc atcatccgc tgctgaggt</p> <p>ggtccacatc cagctggtgg agggccctga gcccattgac ctcttcattg cacttttga</p> <p>aacgtacagc acctggggcc tggcggtggc cctgtccacc accatcctgg gcttctctgt</p> <p>gcccttccct ctcatcacag tcttcaatgt gctgacagcc tgccggctgc ggcagccagg</p> <p>acaacccaag agcggcgcc actgcttctg gctgtgccc tactgtggcc tctttgtcat</p>	Homo sapiens
478	160202 Adrenomedull in Receptor (ADMR)	LG6564	<p>CCGCGGCCAC GTGCCTGCTG CTGCGCGCCT ACGTGACGGC GCATTGTCTAT GCACTGGCTG A</p> <p>ACCTATCATG AGACCTGTCT GCTGCTCACA CTGTATGGAA CCCACATCTG CCTACATCTG</p> <p>CACCTGTATG CAATGTCTCT ACTTCTTCTA TGATGTCTG TGAATGTCTG TACATGTCTG</p> <p>ACTGCGCTAT TCACCGGATC CTGACAACT TTATCAGCCA GACTGCCGGG GCGGGCTGCG</p> <p>ATGCTGTGGT CCATTACTTG CTAAGGACCA GACCGCGGGG GCACATGCGC CTCCTCTTCC</p> <p>TTCTGTGACA CCCAGCGTGA CATAATCATT ACCACGGGTG ATAGCCAGAC TGCTGCGAGC</p> <p>AACCCGCCAC CTGCAGCCA AGCTGAGCT TTCAGGCACA CCATTGCTC GCAAAGACTT</p> <p>GCGCCATGTG TCCCACTCAG TGTCTTACAC CCAGCTGAGG T</p> <p>cagcctctc acagctccc atagcctgga cctgcggcc ctccctccag gaccgagggg A</p> <p>ctcccaaggg aaactcaggc gtgtgctggt cccaatgta gtgaaaccca gctggggggc</p> <p>tggccccctg gagggggta ccgagtgcc taccagtgac cttggagaga tccacaactg</p> <p>gaccgagctg ctgacctct tcaaccacac tttgtctgag tgccacgtgg agctcagcca</p> <p>gagcaccag cgcgtggtcc tctttgccc ctacctggc atgtttgtgg ttgggctggt</p> <p>ggagaacctc ctggtgat at gcgtcaactg gcgcggctca ggcggggcag ggctgatgaa</p> <p>cctctacatc ctcaacatgg ccatcgcgga cctgggcatt gtctgtctc tgcccgtgtg</p> <p>gatgctggag gtacagctgg actacacctg gctctggggc agcttctcct gccgcttcac</p> <p>tcactacttc tactttgtca acatgtatag cagcatcttc ttctgtggt gcttcagagt</p> <p>cgaccgctat gtacacctca ccagcgccc cccctcctgg cagcgttacc agcaccgagt</p> <p>gcggcgggcc atgtgtgcag gcatctgggt cctctcgccc atcatccgc tgctgaggt</p> <p>ggtccacatc cagctggtgg agggccctga gcccattgac ctcttcattg cacttttga</p> <p>aacgtacagc acctggggcc tggcggtggc cctgtccacc accatcctgg gcttctctgt</p> <p>gcccttccct ctcatcacag tcttcaatgt gctgacagcc tgccggctgc ggcagccagg</p> <p>acaacccaag agcggcgcc actgcttctg gctgtgccc tactgtggcc tctttgtcat</p>	Homo sapiens
479	160202 Adrenomedull in Receptor (ADMR)	NM_007264	<p>cagcctctc acagctccc atagcctgga cctgcggcc ctccctccag gaccgagggg A</p> <p>ctcccaaggg aaactcaggc gtgtgctggt cccaatgta gtgaaaccca gctggggggc</p> <p>tggccccctg gagggggta ccgagtgcc taccagtgac cttggagaga tccacaactg</p> <p>gaccgagctg ctgacctct tcaaccacac tttgtctgag tgccacgtgg agctcagcca</p> <p>gagcaccag cgcgtggtcc tctttgccc ctacctggc atgtttgtgg ttgggctggt</p> <p>ggagaacctc ctggtgat at gcgtcaactg gcgcggctca ggcggggcag ggctgatgaa</p> <p>cctctacatc ctcaacatgg ccatcgcgga cctgggcatt gtctgtctc tgcccgtgtg</p> <p>gatgctggag gtacagctgg actacacctg gctctggggc agcttctcct gccgcttcac</p> <p>tcactacttc tactttgtca acatgtatag cagcatcttc ttctgtggt gcttcagagt</p> <p>cgaccgctat gtacacctca ccagcgccc cccctcctgg cagcgttacc agcaccgagt</p> <p>gcggcgggcc atgtgtgcag gcatctgggt cctctcgccc atcatccgc tgctgaggt</p> <p>ggtccacatc cagctggtgg agggccctga gcccattgac ctcttcattg cacttttga</p> <p>aacgtacagc acctggggcc tggcggtggc cctgtccacc accatcctgg gcttctctgt</p> <p>gcccttccct ctcatcacag tcttcaatgt gctgacagcc tgccggctgc ggcagccagg</p> <p>acaacccaag agcggcgcc actgcttctg gctgtgccc tactgtggcc tctttgtcat</p>	Homo sapiens

480	160202 Adrenomedull NP_009195.1 in Receptor (ADMR)	MSVKPSWGGP PSEGVTAVPT SDLGEIHNWT ELLDLFNHTL SECHVELSQS TKRWLFLALY P LAMEVVGLVE NLLVICVNR GSGRAGLMNL YILNMAIDL GIVLSLPVWM LEVTDYTWL WGSFSCRETH YFYFVNMYS IFFLVCLSDV RYVTLTSAP SWQRYQHRVR RAMCAGIWL SAIIPLEVV HIQLVEGPEP MCLFMAPFET YSTWALAVAL STTILGFLLP FPLITVENVL TACRLRQPGQ PKRRHCLLL CAYVAVFVMC WLPYHVTLLL ITLHGTHISL HCHLVHLLYF FYDVIDCFSM LHCVINPILY NFLSPHFRGR LLNAVHYLP KDQTKAGTCA SSSSCSTQHS IIITKGDSP AAAAPHPEPS LSFQAHLLP NTSPISPTQP LTPS	Homo sapiens
481	160204 G Protein-Coupled Receptor RTA AX136399	atgcggggttc tgcttccaaa gccatctctt ccagcaggag agggctctac tctgagctcc A tattttccaa ggctccgggc cgcgctcgc gctggcctgc tgccccgcgc ggctccgcgc ccggaggcgc gagtcacagg aagagccctc caaaaaagg ggcctcgcgc gatcaggaca gctgcaggtg ggtgtgcaga ctggtgagct gccagcagg gccagagcgc gccaggcctg gagatggctg gaaactgctc ctgggaggcc catcccgcca acaggaaacag gatgtgccct ggcctgagcg agggcccgga actctacagc cggggcttcc tgaccatcga gcagatcgcg atgctgcgc ctccggcgt catgaactac atcttctcgc tctctgctc gctgtggcctg gtgggcaacg ggctggctct ctggtttttc ggcttctcca tcaagaggaa ccccttctcc atctacttcc tgcacctggc cagcgccgat gtgggctacc tcttcagcaa ggcgggtgttc tccatctcga acacgggggg ctctctgggc acgtttggcg actacatccg cagcgtgtgc cgggtcctgg gctctgcat gtctcttacc ggcgtgagcc tctgcccgc cgtcagcgc gagcgtgcg cctcggtcat ctctcccgcc tggctactgc gccggcgcc caagcgcctg tcggccgtgg tgtgcacct gctgtgggtc ctgtccctcc tggtcacctg cctgcacaa tacttctcg tgttctggg ccgcggggcc ccggcgcgcc cctgcaggca catggacatc ttcctgggca tctcctgtt cctgctctgc tgcccgtcca tgggtctgcc ctgcctggcc ctcactctgc acgtggagt cggggccga cggcgccagc gctctgcaa gctcaaccac gtcactctgg ccattgctc cgtcttctg gtgtctcca tctacttag gatcgactgg ttcctcttct ggtcttcca gatcccgcc ccttccccg agtacgtcac tgacctgtc atctgcatca acagcagcg caagcccatc gtctacttcc tggccggag ggacaagtgc cagcggctgt gggagccgct cagggtgttc ttccagcgg cctgcggga cggcgtgag ctgggggagg ccgggggcag cagcccaac acagtacca tggagatgca gtgtccccg gggaacgct cctgagactc cagcgcctgg aggagcgag gccaggaaag ggcctccaa acccttcgct ttgggacag aatgggacc tgcctctgag tccatacag agaagaaaga tctgttctct ctctcggc ctcttctcc ctgggtggg gactccagg gtggctggga gactgggcaag ccaccagcaa acagacctgt ggcctccccc cccattctg ctccctaga gacctctgt acagaagtg ccccgaggtg gtggggcccc tcttgcct aggctggttg gtaaaagaga ggaggtcaac accagccta gccactctg cctcttgggt	Homo sapiens

482	160204	G Protein-Coupled Receptor RTA	CAC39840.1	<p>gagccctcct tgactgtgtc ccagccagca ccagccagc agcctcatcc ctgccattca</p> <p>gggtgttcc agagattcga tctcttaag gcattatcag tgagcaaatg tgaaggaaat</p> <p>gggtgttga agaaagtctt ggttcacatg ccttgtagct aagctcttct gcaaacaaac</p> <p>tcccttcccc ccgtcgagtc atttggtgac tttgatgggg ggaatttctg ttatgtcaag</p> <p>gctctggaga caggaaggcc ctttgccgc cttgggtagt tgacctgctt tttctgactc</p> <p>cgggacgagc cagtcctagg ctgctccgg gagcctcga ggtatccgc aggccatgag</p> <p>gacccactgg gcagctcctg gacagcctt tggctccag cccacccga aagtggacac</p> <p>tggctccgcc ctggccacct gggactggc actgtggtg acagtggccc aatgtggcca</p> <p>acggaagttt tataaagac aaaaagtata tcaataaaca tttataact tgc</p> <p>MAGNCSWEAH PGNRNMCPG LSEAPELYSR GFLTIEQIAM LPPPAVMNYI FLLCLCLGLV P</p> <p>GNGLVWFFG FSIKRNPSI YFLHLASADV GYLFSKAVFS ILNTGGFLGT FADYIRSVCR</p> <p>VLGLCMFLTG VSLLPVSAE RCASVIFPAW YWRRRPKRLS AVWCALLWVL SLLVTCLHNY</p> <p>FCVFLGRGAP GAACRHMDF LGILLFLCC PLMVLPLAL ILHVECRARR QRSAKLNHV</p> <p>ILAMVSVELV SSIYLGIDWF LFVWFQIPAP FPEYVTDLCI CINSSAKPIV YFLAGRDKSQ</p> <p>RLWEPLRVVF QRALRDGAEL GEAGGSTPNT VTMEMQCPPG NAS</p>	Homo sapiens
483	160206	G Protein-Coupled Receptor GPR32	NM_001506	<p>atgaatgggg tctcggagg gaccagagg tgcaagtaca ggcaacctgg ggtcctgaca A</p> <p>cgtgategct cttgttccag gaagatgaac tcttcggat gcctgtctga ggaggtgggg</p> <p>tccctccgcc cactgactgt ggttatectg tctgcgtcca ttgctgctgg agtgcctggc</p> <p>aatgggctgg tgcgtggat gactgtctc cgtatggcac gcacggcttc caccgtctgc</p> <p>ttctccacc tggcccttgc gatttcatg ctctcactgt ctctgcccc tgccatgtac</p> <p>tatatgtctt ccaggcagtg gctcctcggg agtgggacct gcaaacctca catcaccttt</p> <p>gtgttctcca gctactttgc cagtaactgc ctctctgtct tcatctctgt gaccgttgc</p> <p>atctctgtcc tctacccctg ctgggcccctg aaccaccgca ctgtgcagcg ggcgagctgg</p> <p>ctggcctttg ggggtgtgct cctggccgcc gcctgtgtct ctgcgcacct gaaattccgg</p> <p>acaaccagaa aatggaatgg ctgtacgcaac tgctacttgg cgttcaactc tgacaatgag</p> <p>actgcccaga ttggattga aggggtcgtg gagggacaca ttatagggaac cattggccac</p> <p>tctctgctgg gcttctctgg gcccttagca atcataggca cctgcgccc cctcatccgg</p> <p>gccaagctct tgcgggaggg ctgggtccat gccaacggcg ccaagaggct gctgctggtg</p> <p>ctggtgagcg ctttctttat ctctgtgccc ccgtttaacg tgggtgctgt ggtccatctg</p> <p>tggcgacggg tgatgctcaa ggaatctac caccgccgga tgctgtctcat cctccaggct</p> <p>agctttgcct tgggctgtgt caacagcagc ctcaacccct tctctacgt ctctgttggc</p> <p>agagatttcc aagaaaagt ttctcagct ttgacttctg ccttggcgag ggcgtttgga</p> <p>gaggagagt ttctgtcat ctgtccctg ggcaacgccc cccgggaatg a</p> <p>MNGVSEGTG CSDRQPGVLT RDRCSRKNM SSGCLSEEVG SLRPLTVIL SASIVGVLG P</p> <p>NGLVWMTVF RMARTVSTVC FFHLALADEM ISLSLPIAMY YIVSRQWLLG EWACKLYITF</p> <p>VFLSYFASNC LLVFISVDRC ISVLYPVWAL NHRTVQRASW LAFGWLLAA ALCSAHLKFR</p> <p>TTRKWNCTH CYLAFNSDNE TAQIWIEGVV EGHIIIGTGH FLGLFLGPLA IIGTCAHLIR</p> <p>AKLLREGWVH ANRPKRLLV LVSAFFIFWS PFNVLLVHL WRRVMLKEIY HPRMLLILOA</p> <p>SFALGCVNSS LNPFLYFVG RDFQEKFFQS LTSALARAFG EEEFLSSCPR GNAPRE</p> <p>cagcctcctt cctccacctc tgtctgcctg ctgcctcttg tctagctgct gtcaggagct A</p> <p>gactgcctcc agggctggaa tctgtgtct cctctgtgccc cagagcccca cgatgtcggc</p>	Homo sapiens
484	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	<p>gagccctcct tgactgtgtc ccagccagca ccagccagc agcctcatcc ctgccattca</p> <p>gggtgttcc agagattcga tctcttaag gcattatcag tgagcaaatg tgaaggaaat</p> <p>gggtgttga agaaagtctt ggttcacatg ccttgtagct aagctcttct gcaaacaaac</p> <p>tcccttcccc ccgtcgagtc atttggtgac tttgatgggg ggaatttctg ttatgtcaag</p> <p>gctctggaga caggaaggcc ctttgccgc cttgggtagt tgacctgctt tttctgactc</p> <p>cgggacgagc cagtcctagg ctgctccgg gagcctcga ggtatccgc aggccatgag</p> <p>gacccactgg gcagctcctg gacagcctt tggctccag cccacccga aagtggacac</p> <p>tggctccgcc ctggccacct gggactggc actgtggtg acagtggccc aatgtggcca</p> <p>acggaagttt tataaagac aaaaagtata tcaataaaca tttataact tgc</p> <p>MAGNCSWEAH PGNRNMCPG LSEAPELYSR GFLTIEQIAM LPPPAVMNYI FLLCLCLGLV P</p> <p>GNGLVWFFG FSIKRNPSI YFLHLASADV GYLFSKAVFS ILNTGGFLGT FADYIRSVCR</p> <p>VLGLCMFLTG VSLLPVSAE RCASVIFPAW YWRRRPKRLS AVWCALLWVL SLLVTCLHNY</p> <p>FCVFLGRGAP GAACRHMDF LGILLFLCC PLMVLPLAL ILHVECRARR QRSAKLNHV</p> <p>ILAMVSVELV SSIYLGIDWF LFVWFQIPAP FPEYVTDLCI CINSSAKPIV YFLAGRDKSQ</p> <p>RLWEPLRVVF QRALRDGAEL GEAGGSTPNT VTMEMQCPPG NAS</p>	Homo sapiens
485	160210	G Protein-Coupled	NM_004778	<p>gagccctcct tgactgtgtc ccagccagca ccagccagc agcctcatcc ctgccattca</p> <p>gggtgttcc agagattcga tctcttaag gcattatcag tgagcaaatg tgaaggaaat</p> <p>gggtgttga agaaagtctt ggttcacatg ccttgtagct aagctcttct gcaaacaaac</p> <p>tcccttcccc ccgtcgagtc atttggtgac tttgatgggg ggaatttctg ttatgtcaag</p> <p>gctctggaga caggaaggcc ctttgccgc cttgggtagt tgacctgctt tttctgactc</p> <p>cgggacgagc cagtcctagg ctgctccgg gagcctcga ggtatccgc aggccatgag</p> <p>gacccactgg gcagctcctg gacagcctt tggctccag cccacccga aagtggacac</p> <p>tggctccgcc ctggccacct gggactggc actgtggtg acagtggccc aatgtggcca</p> <p>acggaagttt tataaagac aaaaagtata tcaataaaca tttataact tgc</p> <p>MAGNCSWEAH PGNRNMCPG LSEAPELYSR GFLTIEQIAM LPPPAVMNYI FLLCLCLGLV P</p> <p>GNGLVWFFG FSIKRNPSI YFLHLASADV GYLFSKAVFS ILNTGGFLGT FADYIRSVCR</p> <p>VLGLCMFLTG VSLLPVSAE RCASVIFPAW YWRRRPKRLS AVWCALLWVL SLLVTCLHNY</p> <p>FCVFLGRGAP GAACRHMDF LGILLFLCC PLMVLPLAL ILHVECRARR QRSAKLNHV</p> <p>ILAMVSVELV SSIYLGIDWF LFVWFQIPAP FPEYVTDLCI CINSSAKPIV YFLAGRDKSQ</p> <p>RLWEPLRVVF QRALRDGAEL GEAGGSTPNT VTMEMQCPPG NAS</p>	Homo sapiens

Receptor
GPR44
(CRTH2)

caacgccaca ctgaagccac tctgcccac cctggagcag atgagccgtc tccagagcca
cagcaaacac agcatccgt acatgacca cgcggccgtg ctgctgcacg ggctggcctc
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agactctgaa tcttttcag aaacagtga taaagcagt gcttctcaa ccttgatgtg
cctgtgaac acctagggtt ctgttaagt gcagtctgat ccaggagcc ggggccgggt
actgagagtc tgcacttaac agctcccag gccgagaagc cagtgcggca ggttcacagg
cgaggcctgg agtaacaaa agtgaaactc gtaatagact tcccactta ggcagtgga
gtcggaaaggg cacacgggt gcgtctccc ggaattcagt ttaccagat gatggggag
ggggaaagga gttttatgtt aaaccatcca tgtatttttg gagaagagag aggaaggtt
tgagaagcac gttccagcc tgcctcttc attagccaa tgcctactgc gctagacgt
tcatccaca atcttaagg gcagcttcta ttagccagtc ttacagctg agcacattct
ggctcagggg ggttaagtga ctggcccagt ttcagggcta acgaccacag ggtctgcact
ctaaccctag gcatcacatg ctcaatgact ctctggtgag cgaggacatt ctctgacct
ctcgaaggac ttaagatgct acctgtgac ccagcactgc ccaagtgct tccaaaggcag
agcagcagg ggtggcgctg gtcaagcact cgggaaacct ggggctaac aaatccaatg
gggaaatga ctaaaagtct tcggtcgtta ggaattgaat gggcacagca actctaagac
tacagcacac gtcatttctt agctaagcgg accagctcc ctgtcggcct ggtgttctgt
gggatccctc tgggcaactg taatcccaag atctgtgcag cccgcctcc aggccacatg
gggctgggca gctaccatt ccttttgcg gatgggagg gtaacttga cctctgacct
atcacttcca ctgcacccc tctcattctt ccacctgccc tggacttggg gtcagagact
gctgtgtttg agctctgcag ccaggggacc gaaaagtgg tgcfaatgaa ttttgccttg
tggatgaat gtcagtggaa gaagcagatg agaaactctt gatctcttg tctgtgttt

486	160210 G Protein- Coupled Receptor GPR44 (CRTH2)	NP_004769.1	<p>tttctgccac caaaggccag ggtcactgaa ggctggccc acagcagggtg ctgagcaaaag ggaacagtga ggtgccagc tagctgcaga gccacctgt gttgacacct cgtccctgct ccctccatc ccttccctt ttactcatag cacttcccc attggacacg tgggtgcattt tgctgttta ttatgtttc tctccatcag aatgaaagct cctcgagggc agggactttg gtctattgtc tgtattgcc ggtgcctagg attgtgcctg tatgcaacag gcaactcaata aatattttg ctgtagactg</p> <p>MSANATLKPL CPILEQMSRL QSHSNTSIRY IDHAAVLHGH LASLLGIVEN GVILFVVGCR P MRQTVVTTWV LHLALSDLIA SASLPFFTYF LAVGHSWELG TTFCKLHSSI FFLNMFASGF LLSAISLDRG LQVVRPVAQ NHRTVAAHK VCLVLWALAV INTVPYFVER DTISRLDGRI MCYNNVLLIN PGPDRTATCN SRQAALAVSK FLAFLVPLA IIASSHAAVS LRLQHRGRRR PGREFVLVAA VAAAFALCWG PYHVESLLEA RAHANPGLRP LWRGLPFVT SLAFENSVAN PVLVLTCPD MLRKLRRSLR TVLESVLVDD SELGGAGSSR RRRTSSTARS ASPLALCSR EEPRGPRLG GWLLGSCAAS PQTGPLNRAL SSTSS</p>	Homo sapiens
487	160212 G Protein- Coupled Receptor GPR52	NM_005684	<p>atgaatgaat ccaggtggac tgaatggagg atcctgaaca tgagcagtggt cattgtgaat A ggtcccgagc gtcactcctg cccacttgga ttggccact acagtggtgt gtagtctctgc atcttcgaga cagtgggttat tgtgttgctg acatttctga ttattgctgg gaactcaaca gttatctttg cctttcattg tgcctcactg ttacatcatt atactaccag ctatttcatt cagacgatgg catatgctga tcttttcgtt ggagttagct gcttgggttc tactctgtca cttctccact actccacagg tgcacacgag tcattaaact gccgggtttt tggatatatc atctcagttc taaaagtggt ttctatggca tgtcttgctt gctacagtggt gtagctgttat cttgcaataa ccaagcctct ttctacaaat caactgtgca ccccttgctg cttgagaatt tgcatatttt tgactctgat ctactcctgc ctacttttct tgccttccct ttttggctgg gggaacctg gtaccatgg tgacattttt gaatgggtgt ccacgtcttg gctcaccagt gcctatttta ctggctttat tgtttgctta ctttatgctc ctgctgctt tgttgtctgc ttcacctact tccacatttt caaaatttgc cgtcagcaca ccaaagagat aaatgaccga agagcccgat tccctagtca tgaggttagat tcttcagag agactggaca cagccctgac cgtcgctacg ccatgtttt gtttaggata accagtgtat ttatatgct gtggctcccc tatataattt actttctct agaaagctcc cgggtcttgg acaatccaac tctgtccttc ttaacaaact ggcttgcaat aagtaaatgt ttttgtaact gtgtaataata cagcctctcc aacggcgctt tccggctagg cctccgaaga ctgtttgaga caatgtgcac atcctgtatg tgtgtgaagg atcagggaagc acaagaacct aacactagga aacgggctaa tcttggctcc attga</p>	Homo sapiens
488	160212 G Protein- Coupled Receptor GPR52	NP_005675.1	<p>MNESRWTEWR ILNMSSGIVN ASERHSCPLG FGHYSVVDVC IFETVIVILL TFLIAGNLT P VIFAFHCAPL LHYTTSYFI QTMAYADLFV GVSLVPLRLS LLHYSTGVHE SLTCRVFGYI ISVLKSVSMA CLACISVDRI LAITKPLSYN QIVTFCRLRI CILIIWYSC LIFLPFFGW GKPGYHGDIF EWCATSWLTS AYFTGFIVCL LYAPAAEVVC FTYFHIFKIC RQHTKEINDR RARFPSHEVD SSRETGHSPD RRYAMVLFRI TSVFYMLWLP YIIYFLLSS RVLDNPTLSF LTTWLAVSNS FCNCVIYSL NGVFRGLRLR LFETMCTSCM CVKDQEAQEP KPRKRANSCS I</p>	Homo sapiens
489	160217 G Protein- Coupled	NM_005683	<p>atgagtcagc aaacaccag tggggactgc ctgtttgacg gtgtcaacga gctgatgaaa A accctacagt ttgcagtcca catccccacc ttcgtcctgg gcctgctcct caacctgctg</p>	Homo sapiens

Accession	Gene	Protein	Sequence	Species
490	Receptor GPR55	160217 G Protein- Coupled Receptor GPR55	<p>gccatccatg gcttcagcac ctctcctaaag aacaggtggc ccgattatgc tgcacacctcc atctacatga tcaacctggc agtctttgac ctgtctgtgg tctctccctt cccattcaag atggtcctgt cccagggtaca gtcccccttc ccgtccctgt gccacctggt ggagtgcctt tacttcgtca gcatgtacgg aagcgtcttc accatctgct tcatcagcat ggaccgggtc ttggccatcc gttaccgctg actggtgagc cactccggtc cccaggaaag atctttggga tctgcatgca caatctgggt cctggtgtgg accggaagca tccctatcta cagtttccat gggaaagtgg aaaaatacat gtgcttcac aacatgtctg atgatacctg gagcgccaag gtcttcttc cgctggaggt gtttggcttc ctcttccca tgggcatcat gggcttctgc tgctccagga gcatccacat cctgctgggc cgccagacc acaccagga ctgggtgcag cagaaagcct gcatctacag catcgagcc agcctggctg tattcgtggt ctcttcctc cagtcacc ctgggttctt cctcgagttc ctgttgagaa acagctttat cgtagagtgc agagccaaag agagcatcat ctcttcttg caatgtgcca tgtgtttctc caatgtcaac tgctgcctgg atgtttctg ctactacttt gtcatcaaa aattccgcat gaacatcagg gccacccgc ctccaggtt ccagctggtc ctgcagaca caagatctc cggggctaa IYMINLAVED LLLVLSLPFK MVLQSQSPF PSLCTLVECL YFVSMYGSVF TICISMDRE LAIRYPLVLS HSGPPGRSLG SACTIWIWLV TGSIPYSFH GKVEKYMCFH NMSDDTWSAK VFPLLEVFGF LLPMGIMGFC CSRSIHLLG RRDTQDMVQ QKACIYSIAA SLAVFVVSFL PVHLGFELQF LVNRNSFIVEC RAKQSISSFEL QLSMCFSNVN CCLDFVCYF VIKFRMNIR AHRPSRVQLV LQDTTISR</p>	Homo sapiens
491	Receptor GPR35	160219 G Protein- Coupled Receptor GPR35	<p>atgaatggca cctacaacac ctgttgctcc agcgacctca cctggccccc agcgatcaag A ctgggcttct agcctactt gggcgctctg ctgtgtgtag gctgtgtgct caacagcctg gcgctctggg tgttctgtg cgcatatcag cagtgagcgg agaccgcat ctacatgacc aacctggcgg tggccgacct ctgcctgtctg tgcacttgc ccttcgtgct gcactccctg cgagacact cgagacgcc gctgtgccag ctctccagg gcatctacct gaccaacagg tcatgagca tcagcctggt caggcccat cccgtggacc gctatgtggc cgtgcggcac ccgctgcgtg ccgcgggct gcggtccccc aggcagctg cgccgctgtg cgcggtcctc tgggtgctgg tcatcgctc ctgtgtggtt cgctggctcc tggggattca ggaaggcggc ttctgcttca ggagcacccg gcacaattc aactccatgc ggttcccgct gctgggattc tacctgcccc tggcgtggtt ggtcttctgc tccctgaagg tggtgactgc cctggccccag aggccacca ccgacgtggg gcaggcagag gccaccgca agcctgccc catggtctgg gccaacctcc tgggttctgt ggtctgtctt ctgccccga acgtggggct gacagtgcgc ctcgagctgg gctggaacgc ctgtgccctc ctggagacga tccgtcgccg cctgtacata accagcaagc tctcagatgc caactgctgc ctggagccca tctgtacta ctacatggcc aaggagtcc aggagcgctc tgcactggcc gtggtctccc gtgctaaagg ccacaaaagc caggactctc tgtcgtgac cctcgccctaa</p>	Homo sapiens
492	Receptor GPR35	160219 G Protein- Coupled Receptor GPR35	<p>NP_005292.1 MNGTYNTCS SDLTWPPAIK LGFYAYLGVL LVLGLLNSL ALNWFCRMQ QWTETRIYMT P NLAVADLCLL CTLPFVLHSL RDTSDTFLCQ LSQGIYLTNR YMSISLVTAI AVDRYAVVRH PLRARGLRSP RQAAAVCAVL WVLVIGSLVA RWLLGQEGG FCFRSTRHNF NSMRFPLLGF YLPLAVVVFC SLKVATAAQ RPPTDVQAE ATRKAARMV ANLIVFWCF LPLHVGLTVR LAVGWNACAL LETIRRALYI TSKLSDANCC LDAICYMA KEFQASALA VAPRAKAHKS</p>	Homo sapiens

493	160221 G Protein- Coupled Receptor GPR27	NM_018971	QDSLCVTLA	atggcgaaacg cgagcgagcc gggtggcagc ggcgggcgcg agggcgccgc cctgggcctc A aagctggcca cgctcagctc gctgctgtgc gtgagcctag cgggcaacgt gctgttcgcg ctgctgatcg tgcgggagcg cagcctgcac cgcgcctcgt actacctgct gctcgacctg tgcttgcccg acgggctcgcg cgcgtcgccc tgcctcccg cgtcatgct ggcggcgcg cgtcggcgcg ccgcgcggcg ggccgcgcg ggcgcgtcg gctgcaagct gctcgctctc ctggccgcgc tctctgctt ccacgcgcg ttcctgctgc tggcggtggg cgtcacccgc tacctggcca tgcgcacca ccgcttctat gcagagcgcc tggcggctg gccgtgcgccc gccatgctgg tgtgcgcgc ctgggcgctg gcgtggcgcg cggccttccc gccagtgtcg gacggcggtg gcgacgacga ggacgcgcg tgcgccttgg agcagcgccc cgacggcgcc cccgcgcg tgggttctt gctgctgctg gccgtggtg tggcgccac gcacctcgtc tacctccgc tgccttctt catccacgac gccgcgaaga tgcggcccg cgccctgggtg ccgcgcgtca gccacgactg gacctccac ggcccgggcg ccacggcca ggccggccc aactggagcg cgggttcgg ccgcggccc acgcgcgcg cgttgttggg catccggccc gcaggcgcg gccggcgcg cgcgcctc ctgctgttgg aagaattcaa gacgagaag aggctgtca agatgttcta cgcgtcacg ctgctcttcc tgctctctg gggccctac gtcgtggcca gctacctgcg ggtcctggtg cggccggcg ccgtcccca ggctacctg acggcctcg tgtgctgac ctgcgcgag gccggcata acccgtctgt gtgttctc ttcaacaggg agctgaggga ctgcttcagg gccagtcc cctgctgcca gagccccgg accaccagg cgaccatcc ctgcacctg aaaggcattg gttatga CLADGLRALA CLPAVMLAAR RAAAGAGPP GALGCKLLAF LALFCFHAA FLLLGVT YLAIAHREFY AERLAGWPCA AMLVCAAWAL ALAAAFPPVL DGGDDDEADP CALEQRPDGA PGALGFLLL AVVGATHLV YLRLFFIHD RRMRPARLV PAVSHDWFH GPGATGQAAA NWTAGFGRGP TPVALVGIRP AGPRGARL LVLEEFKTEK RLCKMFYAVT LLFLLMGPY VWASYLRVLV RPAVPQAYL TASVWLTFQA AGINPVVCFE FNELRDCFR AQFPCCQSPR TTQATHPCDL KGIGL	Homo sapiens
494	160221 G Protein- Coupled Receptor GPR27	NP_061844.1	MANASEPGS CLADGLRALA CLPAVMLAAR RAAAGAGPP GALGCKLLAF YLAIAHREFY AERLAGWPCA AMLVCAAWAL ALAAAFPPVL DGGDDDEADP PGALGFLLL AVVGATHLV YLRLFFIHD RRMRPARLV PAVSHDWFH NWTAGFGRGP TPVALVGIRP AGPRGARL LVLEEFKTEK RLCKMFYAVT VWASYLRVLV RPAVPQAYL TASVWLTFQA AGINPVVCFE FNELRDCFR TTQATHPCDL KGIGL	MANASEPGS CLADGLRALA CLPAVMLAAR RAAAGAGPP GALGCKLLAF YLAIAHREFY AERLAGWPCA AMLVCAAWAL ALAAAFPPVL DGGDDDEADP PGALGFLLL AVVGATHLV YLRLFFIHD RRMRPARLV PAVSHDWFH NWTAGFGRGP TPVALVGIRP AGPRGARL LVLEEFKTEK RLCKMFYAVT VWASYLRVLV RPAVPQAYL TASVWLTFQA AGINPVVCFE FNELRDCFR TTQATHPCDL KGIGL	Homo sapiens
495	160222 G Protein- Coupled Receptor GPR72	NM_016540	atggtccctc acccttctgct gctctgtctc ctccccttgg tgcgagccac cgagccccc A gagggccggg ccgacgagca gagcgcgag gagcccttgg ccgtgcccac tgcctcgccac ttcttctctt ggaacaacta cacttctcc gactggcaga actttgtggg caggaggcgc tacggcgctg agtcccagaa cccacggtg aaagccctgc tcatgttggc ttactcctc atcattgtct tctactctt tggcaacgtc ctggtctgtc atgtcatctt caagaaccag cgaatgcact cggccaccag cctcttcac gtcaacctgg cagttgccga cataatgac acgctgtca acacccctt cactttggtt cgttttgtga acagcacat gatatttggg aagggcattg gccatgtcag ccgctttggc cagtactgct cactgcactg ctacgactg acactgacag ccattgcgtt ggatgcccac caggtcatca tgcacctt gaaaccccg atctcaatca caaagggtgt catctacat cgtgtcatct ggacctaggc tacgttctt tcactccac atgctatctg ccagaaatta ttaccttca aatacagtg gagacttgtg cgctccctt gcctgccaga cttccctgag ccagtgacc tctctggaa gtacctggac ttggccacct tcatctctgct ctacatcctg cccctcctca tcatctctgt ggctacgct	Homo sapiens	

496	160222 G Protein- Coupled Receptor GPR72	NP_057624.1	<p>cgtgtggcca agaaactgtg gctgtgtaat atgattgctg atgtgaccac agagcagtac tttgccttc ggcgcaaaaa gaagaagacc atcaagatgt tgatgtggtt ggtagtccct tttgcctct gctggttccc cctcaactgc tacgtctccc tctgtccag caaggtcatc cgaccaaca atgcccctta ctttgccttc cactggtttg ccatgagcag cacctgctat aacccctca tatactgtg gctgaacgag aacttcagga ttgagctaaa ggcattactg agcatgtgtc aaagacctcc caagcctcag ggcagaggg ccccccttc caataacctc ttcaggtgtg cctggacaga gaagaatgat ggcagaggg ccccccttc caataacctc ctgccacct cccaaactca gctgggaag acagacctgt catctgtgga accattgtg acgatgagtt agaagaggtt gggaagagg agtgggagg gctgtctcc acctgaggga gggaagaga gcctattctc acacatgac ttccagatgc tggaaacaca ctcctgcaga aggctgtagg actcttgaat tcctaggaaa ctgtccagcc tctagcccc atgtgatgtg aaaactaaaa ggcaccacca actagacatg tttcataaa ttcccatcta agaaacactg ggaggcacag cagcctgtat ccttgaggaa gaggagcgg gacaacgttg gccagatgg gggtgaatc attcaactgc ctccatctgt gggcagctg ctgccttaca gcccttccca ctagactgag catcccgaag gagacctaaa tcatacttg ggtgtgtga ccagatgca cagagctctg cttgaaacag gtacacggc cagggaatg ccagcaa</p>	<p>Homosapiens</p>
497	160223 G Protein- Coupled Receptor G2A	NM_013345	<p>ggagggggtg cgaggctagc cagcagcgg cagccctggg tcattttaaa ctctcagagt A gaacgtcttg ataggaccga caagacgcat gacatgtact tagatagctt atcttagagc cacactgaga ttggaacccg caaaatatgc caggaggga ggtgagcaag ggacacgaca ctcaccggga taaacccaac agcgcagcg agcgtgtgg gaaaccggan ccttgacac cgccggggga agtgggccn ccgccaccac cgtggaagaa cagcgggan gcaaccacg agatgagacg gaactgcccgt gagatccag aatnccnact gtgggtctga cccaggatan cggaagcag ggaactggaac agccctctc atgttcttga caccgtcatt ctccagcagt cagctaaaggc acagaggcag ccgagcgtc gtcagcagag tctgtgtga gcagaacacg ccacacgcca cagccacac gccacacgtg caggattgct caagatgaa gggcacagt gaatatatat atatatatt attttggcg agaccctgga ggacacactg aatacaatgg aataccatcc cgcctttgaa aggaaggga atctctggca acgtctgaac aggaggagc ttgaggacac tgtgtgtagt ggagcagtg agacacgaa ggacacagc tgaagacacg cagagatgcc caccacagt gggaggtgac agggagccc agcgcacaga gacaaagtgg aatggagccc tgggggctgg gagcaaatgc ggagcagtg cttcctggg gagagtctc gtttgggaag atgagaaggt tctgcccag gatgctggcg atggttgag aagaatgtga atgtgccccaa tgctactgaa aaacggttac aatggaaacg cccccagt gaccaccat gccccgtggg cctccctggg cctctccgc aagacctgca acaacgtgtc cttcgaagag</p>	<p>Homosapiens</p>

498	160223	G Protein- Coupled Receptor G2A	NP_037477.1	<p>agcaggatag tcctgtgtcgt ggtgtacagc gcggtgtgca cgtgtgggggt gccgggccaac tgcctgactg cgtggctggc gctgtgcag gtaactgcag gcaactgtgt ggcggtctac ctgctctgcc tggcactctg cgagctgctg tacacaggca cgtgccact ctgggtcatc tatatccgca accagcacg ctggacccta ggcctgtctg cctgcaaggt gaccgacctac atcttctctt gcaacatcta cgtcagcatc cgtctctctg cctgcatctc ctgcgaccgc ttcgtggccg tgggtacgc gctggagagt cggggccgcg gccgcccagg gaccgccatc ctcatctccg cctgcatctt catcctctgc gggatcgttc actaccgggt gtccagacg gaagacaagg agacctgctt tgacatgctg cagatggaca gcaggattgc cgggtactac tacgccaagg tcacctgtgg ctttgccatc cctctctcca tcatgcctt caccaccac cggattttca ggagcatcaa gcagagcatg ggcttaagcg ctgcccagaa ggccaaggtg aagcactcgg ccctgcgggt ggtgtgcatc ttcttagtct gcttcgccc gtaccacctg gtctctctcg tcaaagccgc tgccttttcc tactacagag gagacaggaa cgccatgtgc ggcttgaggg aaaggctgta cacagcctct gtggtgtttc tgtgctgtc caggtgaaac ggcgtggctg acccattat ctagtgcgtg gccagggacc attcccgcca agaagtgtcc agaatccata aggggtggaa agagtgttcc atgaagacag acgtcaccag gctcaccac agcagggaca ccgaggagct gcagtgccc gtggcccttg cagaccacta cacttctcc aggccctgc accaccagg gtcaccatgc cctgcaaaaga ggctgattga ggagtcctgc tgagcccat gtgtggcagg gggatggcag gttgggggtc ctggggccag caatgtggtt cctgtgcat gagccacca gccacagtgc ccctgtcccc tctggaagac aaactaccaa ttctcgttc ctgaagccac tccctcgtg accactggcc ccangctttc ccacatggaa gtggctgca tgccaagggt aagagcgaca cctccaggct tccgggagcc canagagcat gtggcangca gtggggcctc ttcatacaca nccgtcctgg ctggctccct tggctgtggg cangtacacc cctgctggca gaagtacctg gtggctgccc tgttcgcac agtggcgatg actttatttg cggagcattt ctgcaagcgt tgcctggatg cgggtggtgca ttgtgggccc tctgggctcc tgcctcaaaa tgtcagtgag caccatgctg gaagtaccca tcaactgtggc agcggcccagg aaggcatagg gcancctacc acctccaang gggcangcgc cctcatctgg ggttgggt</p>	Homo sapiens
499	160224	Endothelin Type B Receptor- Like Protein 2 (ETBR-LP- 2)	NM_004767	<p>CLTAWLALDQ VLQGNVLAVY LLCLALCELL YTGTLPLWVI YIRNQHRWTL GLLACKVTAY IFFCNIYVSI LFLCCISCDR FVAIVYALE RRRRRRTAI LISACIFILV GIVHYPVFQT EDKETCFDML QMDSRIAGY YARFTVGFAI PLSIIAFTNH RFRSIKQSM GLSAAQKAKV KHSIAIVVVI FLVCFAPYHL VLLVKAASF YRGRDNAMC GLEERLYTAS VFVLCISTVN GVADPIIYVL ATDHSRQEVs RIHKGWKEWS MKTDVTRLTH SRDTEELQSP VALADHYTFs RPVHPGSPC PAKRLIEESC</p> <p>cgggtacagg gggcccaaga gctgggctgg ctgtctctctg ctcatccagc catgctgtgg A ctgtgtgccc tggctgtctc tcttctgtg atttggctg tggggctaag cagggtctct gggggtgccc cctgtcacct gggcaggcac agagccgaga cccaggagca gcagagccga tccaagagg gcaccagga tgaggaggcc aagggcgtgc agcagtatgt gcttgaggag tggcgaggat acccccgcc cattcacct gctggcctgc agccaacca gcccttgggtg gccaccagcc ctaaccccca caagatggg ggcacccccc acagtgggca ggaactgagg ggcaatctga caggggcacc agggcagagg ctacagatcc agaaccctt gtatccgggtg</p>	Homo sapiens

500	160224 Endothelin Type B Receptor- Like Protein 2 (ETBR-LP- 2)	NP_004758.1	MRWLWPLAVS LAVILAVGLS PEEWAEPYRP IHPAGLQPTK YPVTESSYSA YAIMLLALVV FFCLPIVIFN EITKQRLVGD PIERCQSILA KLAVIIVGSM LVMTYQNARM WWYFGCYFCL VWGLTVVYAF CTLPENVCNI RPLGQAFLLDC CCCCCCECG	acggagagct cctacagtgc ctatgccatc atgcttctgg cgctggtggt gtttgcggtg ggcattgtgg gcaacctgtc ggtcatgtgc atcggtgtgg acagctacta cctgaagagc gcctggaact ccatacctgc cagcctggcc ctctgggatt ttctggtcct cttttctctg ctccctattg tcatctcaa cgagatcac aagcagagc tactgggtga cgttctctgt cgtgcctgac ccttcatgga ggtctctct ctgggagta cgaacttctg cctctgtgcc ctgggcattg accgcttcca cgtggccacc agcacctgc ccaaggtgag gcccatcgag cggtgccaat ccatacctgc caagtggct gtcatactgg tgggtccat gacgtggct gtgcctgagc tctgctgtg gcagctggca caggagcctg cccccacct gggcacctg gactcatgca tcatgaaacc ctacagcagc ctgcccagat cctgtattc actggtgatg acctaccaga agcccgcat gtggtgttac ttggtctgt acttctgct gccatccctc ttcacagtca cctgccagct ggtgacatgg cgggtgcgag gccctccagg gaggaagta gagtgcaggg ccagcaagca cgagcagtg gagagccagc tcaacagcac cgtggtggc ctgacctggg tctacgctt ctgcacctc ccagagaacg tctgcaacat cgtggtggc tacctctca ccgagctgac ccgccagacc ctggacctc tgggacctcat caaccagttc tccacctct tcaagggcgc catcaccca gtgctgtcc ttgcatctg caggccgctg ggccaggcct tctggactg ctgctgtgc tctgctgtg aggagtgcg cggggctctg gaggcctctg ctgccaatgg gtcggacaac aagctcaaga ccgaggtgc ctctccatc tacttcaca agcccaggga gtcaccccca ctctgcccc tgggcacacc ttgctgaggc ccagtagagg gtgggaggg agggagaggc cggcacccc gcgggtgtct gctgttcttt ccccatagg ctgtcttgt tgcctgtctt gctgtctagg gatggacttg gttcctcttg tcaaggttg ggaatccg	Homo sapiens
501	160225 Sphingolipid Receptor Edg6	NM_003775	gagtcagccc ccgggggagg ccatgaacgc caggggacc ccggtggccc ccgagtcctg ccaacagctg gcggccggcg ggcacagccg gctcattgtt ctgcactaca accactcggg ccggctggcc gggcgggggg ggcggaggga tggcgccctg ggggcccctg gggggctgtc ggtggccgc agtgccttg tggctctga gaactctg gtgctggcg ccatcacag ccacatcgg tcgcagctt ggttctacta ttgcttggt aacatcacg tgagtgaact gtcacgggc gcggcctacc tggccaaagt gctgctgtc ggggcccga ccttccgtct ggcgcgcgc cagtgttcc tacgggagg cctgctctt accgcccctg ccgctccac cttcagctg ctcttactg caggggagcg ctttggcacc atggtgcgg cgggtggcga gagcggggcc accaagacca gccgcgtcta cggcttcat ggcctctgt ggtgctggc cgcgtgctg gggatgctg ctttgcctgg ctggaaactg ctgtgcgct ttgaccgctg ctccagcct ctgcccctct actccaagcg ctacatctc ttctgccttg tgatcttgc	Homo sapiens	

502	160225 Sphingolipid NP_003766.1	Receptor Edg6	<p>cggcgtcctg gccaccatca tgggcctcta tggggccatc ttccgcctgg tgcaggccag cgggcagaag gcccacgcc cagcgcccg cgcgaaggcc cgccgcctgc tgaagacggt gctgatgc ctgctgctt tcttggtgtg ctggggccca ctcttcgggc tgcgtctggc cgacgtcttt ggtccaacc tctgggccc ggaatcctg cggggcatgg actggatect ggccctggcc gtcctcaact cggcggtcaa ccccatcatc tactccttc gcagcaggga ggtgtgcaga gccgtgtca gcttctctg ctgcgggtgt ctcggctgg gcacgcagg gccggggac tgcctggccc ggccgtcga ggtcactcc ggaactcca ccaccgacag ctctctgagg ccaagggaca gcttctcgcg cctccgctcg ctacgctttc ggaatcgga gcccctgtcc agcatctcca gcgtgcggag catctgaagt tgcagtcttg cgtgtggatg gtcagccac cgggtgcgtg ccaggcagg cctcctggg tacaggaagc tgtgtgcacg cagcctcgcc tgtatggga gcagggaacg ggacaggccc ccatggtctt cccggtggcc tctcggggt tctgacgcca aatgggcttc ccatggtcac cctggacaag gagttaacca cccacctcc ccgtaggagc agagagcacc ctggtgtggg ggcgagtgt tcccacaac ccgcttctg tgtgattctg gggaagtccc gcccctctc tgggctcag taggctccc aggctgcaag ggtggaactg tgggatgcat gccctggcaa cattgaagtt cgatcatggt aaaaa</p>	Homo sapiens
503	160228 T-Cell Death-Associated Gene 8 (GPR65)	NM_003608	<p>atgaacagca catgtattga agaacagcat gacctggatc actatttgtt tccatttgtt A tacatctttg tgattatagt cagcattcca gccaatattg gatctctgtg tgtgtctttc ctgcaaccca agaaggaaa tgaaactaga atttacctct tcagtttgtc actatcagat ttactctatg cattaactct cctttatgg attgattata ctggaaata agacaactgg actttctctc ctgccttctg caaaggaggt gctttctca tgtacatgaa gttttacagc agcacagcat tctcaccctg cattgccgtt gatcggattt tggctgttgt ctaccctttg aagttttttt tcctaaggac aagaagaatt gcactcatgg tcagcctgtc catctggata ttggaacca tctcaatgc tgtcatgttg tgggaagatg aaacagtgtt tgaatatgac gatgccgaaa agtctaattt tactttatgc tatgacaaat accctttaga gaaatggcaa atcaacctca acttggtcag gacgtgtaca ggctatgcaa taccttttgt caccatcctg atctgtaacc ggaagtcta ccaagctgtg cggcacataa aagccacgga aacaaggaa agaagagaaa tcataaaact acttgtcagc atcacagtta cttttgtctt atgctttact ccctttcatg tgatgttctg gattcgtgc atttagagc atgtgtgaa cttcgaagac cacagcaatt ctgggaagcg aacttacaca atttataga tcacggttgc attaacaagt ttaaattgtg ttgctgatcc aattctgtac tgttttgtta ccgaacagc aagatatgat atgtggaata tattaataat ctgcactggg aggtgtaata catcacaaag acaagaaaa cgcatacttt ctgtgtctac aaaagatact atggaattag aggtccttga gtag</p>	Homo sapiens

160228	T-Cell Death- Associated Gene 8 (GPR65)	NP_003599.1	MNSTCIEEQH	DLDHFLPPIV	YIFVIIVSIP	ANIGSLCVSF	LQPKKESELG	IYLFSLSLSD	P	Homo sapiens
			LLYALTPLW	IDYTNKDNW	TFSPALCKGS	AFILMYMKFS	STAFLTCAIV	DRYLAVVYPL		
			KFFFLRTRRI	ALMVSLSIWI	LETIFNAVML	WEDETVEYVC	DAEKSNFILC	YDKYPLEKWQ		
			INLNLFRCTC	GYAIPLVIL	ICNRKVYQAV	RHNKATENKE	KKRIKLIVS	ITVTFVLCT		
			PFHVMLLIRC	ILEHAVNFED	HSNSGKRTYT	MYRITVALTS	LNCVADPILY	CFVTETGRYD		
			MWNILKFTCG	RCNTSQRQPK	RILSVSTKDT	MELEVLLE				
160300	Encephalopsi n	NM_014322	cgagcccccgc	cgcaagctga	gcgcctccgc	cgccgagcgc	cgccgagcgc	gggcccatgta	A	Homo sapiens
			ctcgggggaac	cgcagcgcg	gccacggcta	ctgggacggc	ggcgggggcg	cgggcgctga		
			ggggccggcg	ccggcgggga	cactgagccc	cgcgccctc	ttcagccccc	gcacctacga		
			gcgcctggcg	ctgctgctgg	gtcccatggg	gctgctgggc	gtcgccaaca	acctgctgggt		
			gctgctctc	tactacaagt	tccagcggt	ccgcactccc	actcactcc	tctggtctaa		
			cactagcctc	agcgacctgc	tggtgtccct	cttcgggggtc	acctttacct	ttgtgtccctg		
			cctgaggaac	ggctgggtgt	gggacacggt	gggctgcgtg	tgggacgggt	ttagcggcag		
			cctctctggg	attgtttcca	ttgccacct	aaccgtgctg	gcctatgaac	gttacattcg		
			cgtggtccat	gccagagtga	tcaatttttc	ctgggcccctg	agggccatta	cctacatctg		
			gctctactca	ctggcgctgg	caggagcacc	tctcctggga	tggaaacaggt	acatcctggga		
			cgtacacgga	ctaggctgca	ctgtggactg	gaaatccaa	gatgccaacg	attcctcctt		
			tggtcttttc	ttatttcttg	gctgcctgggt	ggcgcccttg	gggtgcatag	cccatttgcta		
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			agtgatcaag	attttaaaat	atgaaaagaa	actggccaaa	atgtgctttt	taatgatatt		
			cacctctctg	gtctgttgga	tgccctatat	cgtgatctgc	ttcttggtgg	ttaatgggtca		
			tggtcacctg	gtcactccaa	caatatctat	tggttcgtac	ctctttgcta	aatogaacac		
			tgtatacaat	ccagtgattt	atgtcttcat	gatcagaaa	tttcgaagat	cccttttgca		
			gcttctgtgc	ctccgactgc	tgaggtgcca	gaggcctctg	aaagacctac	cagcagctgg		
			aagtgaatg	cagatcagac	ccattgtgat	gtcacagaaa	gatggggaca	ggccaaaagaa		
			aaaagtgact	ttcaactctt	cttccatcat	ttttatcatc	accagtgatg	aatcactgtc		
			agttgacgac	agcgacaaaa	ccattgggggt	ccaaagtgtt	atgttaatcc	aagtctgtcc		
			tttgtaggaa	tgaaggatgg	caacgaaaag	tggggccccta	aattggatgc	cacttttgga		
			ctttcatcat	cctcctgaag	agaagtgtc	tggaataacc	gttctatgta	atatcaacag		
			aaccttgtgg	tccagcagga	aatccgaatt	gcccataatg	tcttgggccc	cagggaagagg		
			tgaaacaaaa	acaaattctt	ttaattcaac	gggtgcttta	cataatgaaa	aaacctctg		
			tgcacacgat	gggcattctaa	catcatcatc	ttctaattgt	ttggagattt	tcatttcaaa		
			tatatatttt	aaattactct	attttccaaa	acacgtaatg	cattttttct	gaaaataacct		
			tactgtaaaa	ataactgtcg	cgtacacatg	tgtgaagtgc	ctagaacata	ctgaattttt		
			tttgtactgt	tggactctat	tcagtgtcat	gtcctatatc	tgatcaagtt	atcaaggaga		
			taattctaga	atgaaaaaga	aaatcctctt	gttggaacaa	aaagacgttt	tatatgtgca		
			gtatgacaaa	gaggagtctt	agagacaaat	ttgaatctct	gtcagccctgg	agaccagcac		
			cagaggaaat	tacaaggcaa	actccctata	atttgtcttc	cccaaatgac	tgcccctaca		
			gactcaaaag	tctttttctt	tgttttgttg	tttctctaaa	aatttactgt	tctttgtcga		
			tgctatataa	gccagggaat	tctaagacgc	cagctctctt	agatttgctc	attccctctg		
			atttcccaca	tatatattac	atataccgcg	taataaattt	atgttttggtt	taaaaaaaaa		

[illegible]

510	160314	G Protein- Coupled Receptor GPR103	ENSMRPT2217 53	MKIKYDFLYE KEHICCLJEEW RVGDGSLVLT IVQIIGFSNS GITMRKRKAK FSLRENPFVEE TKGEAFSDGN PLDSG	PLMVMLILYS WAPFHVVHMM VTVVALLFVAVC NENFKKNVLS IEVKLCEQTE EKKKLKRHLA LFRSELAENS	Homo sapiens		
511	160317	Neuropeptide FF 2 Receptor	NM_004885	tctggagacca gtttcacaa cagcggccag ggagggagcg tggagtggag cgaaaagttag ttctggttcc acacaaactc tgtactcaga caatcttcat tttgctttat acctggccat atattatagc gaatatctgt gtgtggtcta tcacatcgggt aagaaaaata taccgagagt gccgggaaga acatctacct tcttcagggc ccaggaaaaa	agtaaatggtg aatgtacctg ctggtgacctc cagagcactc caggcagtc ctggagccgg tgccgcccag ttcagaaaa tattaatatt tatttcttac tgtaaatgagg aagtgatatta aggatggcca cgcagcttca cccttttaaa cctagccatc agactcaact caggaaatga tggcccaat ggctccctc cacacaggca attaagatgc	atactgatgc agcgggatat acgtctcatc agcgccgagc gagctccagc gagctcggtc gagctcggtc agggctcgcc tgccatccca acctatgtga ttcttgatct tgccacacat tattctgcca tttgaaaca gtctttacgt ccaaagctca accatcatgt cctagccatc agactcaact caggaaatga tggcccaat ggctccctc cacacaggca attaagatgc	ttccttttct gaatagcttc tgcaccggac gcccgcctgg gggattggcg gctcgagcgg gagcaaatggg caatgacaca tcaccagcct catgatggga cactaatctc gctataaaca gatcagtggg tgctgtagat agcgtttgtc agtaatgtta aaccagtcca caccactgtg caccactgtg tggaaggatt ggagcagtgg ggcctgctt cggattctgtg	Homo sapiens

512	160317 Neuropeptide NP_004876.1 FF 2 Receptor	catggtgcc cctgtggact ctaatgatgc tctcagacta cgctgacctt tctccaaatg aactgcagat catcaacatc tacatctacc cttttgcaca ctggctggca ttcggcaaca gcagtgtcaa tcccatcatt tatggtttct tcaacagagaa tttccgccgt ggtttccaa aagctttcca gctccagctc tgccaaaaaa gagcaaaagc tatggaagct tataccctaa aagctaaaaa ccatgtgctc ataaacacat ctaatcagct tgcacaggaa tctacatttc aaaaccctca tggggaatgc ttgctttata ggaataatgc tgaataacc caacaggaat tagtgatgga agaattaaaa gaaactacta acagcagtga gatttaaaaa gagctagtgt gataatccta actctactac gcattatata tttaaatcca ttgctttttg tggctttgca cttcaaat tttcaagaat gtcttaata aacattttac gatcataaac aatcttatgt tgtataaaa aaaattaaaa ataaacaaa atggtcataa gatcataaac aatcttatgt tgtataaaa tacgtagagt gacttagaca tgtttgcatg aataaatata tttctagaga acagttaaaa aaaaaaaaaaaa	Homo sapiens
513	160324 G Protein-Coupled Receptor GPR86/GPR94/P2Y13	LNSEFGTPAA SWCLLESDVS SAPDKEAGRE RRALSVOQRG GPWSGSLEW SRQSAGDRRR P LGLSRQTAKS SWSRSRDRTS CRRRAWILV PAADRARRER FIMNEKWDTN SSENWHPIWN VNDTKHLYS DINITYVNY LHQPQVAIF IISYFLIFFL CMGNTVVCV IVMRNKMHMT VTNLFILNLA ISDLLVGIFC MPITLLDNII AGWPFNGTMC KISGLVQGIS VAASVFTLVA IAVDRFQCVV YPFKPLTIK TAFVIIMIY VLAITIMSPS AVMLHVQEEK YVRVLNSQN KTSPVWCRE DWPNQEMRKI YTTVLFIANY LAPLSLIVIM YGRIGISLFR AAVPHTGRKN QEQQHVVS RK KQKIIKMLLI VALLFILSWL PLWTLMLSD YADLSPNELQ IINIYIYFPA HWLAFGNSSV NPITYGFENE NFRRGFQEF QLQLCQKRAK PMEAYTLKAK SHVLINTSNQ LVQESTFQNP HGETLLYRKS AEKPPQELVM BELKETNSS EI aacagtattt tctttttcaa cacatctatt gaaagtgttg gataaatgca ggaatgtaat A atgctataaa cataaagtct ttttttaaaa aatagcatgt gaaaaatcatg aagggtcttt tgttttcttt tgtttgtata tatgtttatt ggtaaacaggt gacactggaa gcaatgaaca ccacagtgat gcaaggcttc aacagatctg agcgggtgcc cagagacact cggatagtag agctggtatt ccagccctc tacacagtgg ttttcttgac cggcatcctg ctgaataactt tggctctgtg ggtgtttgtt cacatcccca gctcctccac cttcatcatc tacctcaaaa acactttgtt ggcgacttg ataatgacac tcatgcttcc tttcaaaatc ctctctgact cacacctggc acctggcag ctacagactt ttgtgtgtcg ttttcttctg gtgatatattt atgagacctt gtatgtgggc atcgtgctgt tagggctcat agcctttgac agattcctca agatcatcag accttgaga aatatctttc taaaaaaacc tgtttttgca aaaacggctt caatcttcat ctggttcttt ttgttcttca tctccctgcc aaatatgac ttgagcaaca aggaagcaac acctcgtct gtgaaaaagt gtgcttctctt aaaggggcct ctgggggctga aatggcatca aatggtaaat aacatatgcc agttattttt ctggactgtt tttatccctaa tgcttggttt ttatgtggtt attgcaaaa aagtaataga ttcttataga aagtcctcaaa gtaaggacag aaaaaaac aaaaagctgg aagcaaaagt atttgtgtc gtggctgtct tctttgtgtg ttttctcca tttcattttg ccagagtctc atatactcac agtcaaacca acaataagac tgactgtaga ctgcaaaaat aactgtttat tgctaaagaa acaactctct ttttggcag aactaacatt tgtatggatc ccttaataata catattctta tgaataaat tcacagaaaa gctaccatgt atgcaaggga gaaagaccac agcatcaagc caagaaaaat atagcagtca gacagacaaac ataaccttag gctgacaact gtacataggg ttaactttca	Homo sapiens

514	160324	G. Protein- Coupled Receptor GPR86/GPR94/ P2Y13	NP_076403.1	<p> tttattgatg agacttcctg agataatgtg gaatacaaat ttaaccaaga aaaaaagatt ggaacaaatg ctctcttaca ttttattatc ctgggtgtaca gaaaagatta tataaaattt aaatccacat agatctattc ataagctgaa tgaaccatta ctaagagaat gcaacaggat acaaatggcc actagaggtc attatttctt tcttctttt tttttttt aatttcaaga gcatttcaat ttaacattt ggaagagact aaggagaaac tatatccct acaaacctcc cctccaaaaca ctttctcaca ttcttttcca caatttactg aacttactg cttttgtgccc ccttaaatgt agatatgtgc tgaagaaaa aaaaaagcc caactcttga agtccattgc tgaaaactgc agcagggtg tgaagggat gcagacttga agagtctgag gaactgaagt gggtcagcaa gacctctgaa atcctgggta aggattttc tcttacaat tacaacagc ctctttcaca ttacaataat ataccatagg aggcacaagc accattatta agccactttg ctacacactt aagtgtgtac aattcaagt tgaagatgct gtgttaacta ttctttgaa ttctccttct gccagcaaa tactctaag atggttaaac atggcaccta ctacagcaatg ccttctctga ccacaacccc tatccccctg cccacacctc ctcatataaa acaataactt ctactgtttg ggtgtgtgat aggtttctca atgcagatct cctttttcta gttagctata ttcttgactg catccgctaa aaatgttaaa gcttcttgag agacagacat gccagatttt ctgggtatct ccataaatc gacctacagt ccatggctca cagatgtttt aaatagaatt gctattctcg atacatacaa agacgtaatt gctgacccac aatcagtaac atccatattg ggagattttt caaaggatgg tgacctgct tgtatttatt taccttggtt ttttttctg catccttctg tgattcaaaa aagtaaaatg tggctttctg aaatgatgga taagagtcta catcttctag aaaaaataca taaaggagta gtaaatgtct gtaaatgtgc cagcagctcc aacacgacca tcgtagggtg aagccccagt tttcttccat ggcctcaaa gcccagaac ttgcctacct ttctggcctt acctcttag tactatacca tctcttgaac tttatactct tgtataaatt tctaaacttc agaaaatgcc atactctgt ttggcaccac acatgtatat ttccccctgg tacacttggga agactcttat ccactctgta aacctatgt tgtcatcact tggctccatga aatattacct ggccaatc caccatcac ctcaaaccca atcaccccc cctctgtatg ctgtcacacc tatattatta aacttatcac attgcatgt aattacttcc tgacctttgt atctactct ttagtaactg atgtatatat ctgaaaggag agattgttct attgtgcaat caataaatgt ttgataaaat aaagccc MNTTVMQGFN RSERCPDR IVQLVFPALY TVVFLTGILL NTIALWVFVH IPSSTFIY P LKNTLVADLI MTLMLPFKIL SDSHLAPWQL RAFVCRFSSV IFYETMYVGI VLIGLIAFDR FLKIIIRPLN IFLKKPVFAK TVSIFIWFFL FFISLPNMIL SNKEATPSSV KKCASLKGPL GLKWHQMVNN ICQFIFWTFV ILMLVFYVVI AKKVYDSYRK SKSKDRKNNK KLEGVFVVV AVFFVCFAPF HFARVPYTHS QTNKNTDCL QNQLFIKET TLFLAATNIC MDPLIYIFLC KKFTKLPDM QGRKTTASSQ ENHSSQTDNI TLG ctccccacggg ctgggtgcca agcggccctg gtgggtctgc gggggcaggg gcagccttcc A tggtttatct ccaccgggc gatctgctcg tccgcctcgg ctccagaagc tggggctcag gggtccggcga ggcaggaagc ctgaggccac agcccagagc agcctgagtg cagtcagtgtg ggggcgactg ctctctggcc ccttgggtgt ggggttcagc ctgtctggcg gcacccagac cccagcgtc tacgacgaga gcgggagcac cggaggtgtt gatgacagca cgccctcaat cctgcctgcc ccccgggct acccaggcca agtctgtgcc aatgacagt acaccctgga gctccccgac agctcacggg cactgcttct gggctgggtg cccaccaggc tgggtgccgcg </p>	Homo sapiens
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				<p> P QVCAANDSDT STMLLMNLAT SILPAPRGYP VLATQAPRLP YGSVLLAAV ARSDRVLCHD ALPLDAQASH LAASRRRYGH ALRLTAVFLA YVVSAEFRDK VRAGLFQFSP LNSCVDPIFY YVVSAEFRDK VRAGLFQFSP SSLLQ </p>	

517	160330 G Protein- Coupled- Receptor TM7XN1/GPR56	NM_005682	Homo sapiens
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		attacaggtg gtgactttcca agagtactc ggtcggaggga aaatgactcc ccagtcgctg	
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(CELSR2)

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				<p>MRSPATGVPL PTPPPPLLL LLLLPPLLL GDQVGPCRSI GSRGRSSGA CAPMGWLCPS P SASNLWLYTS RCRDAGTELT GHLVPHHDGL RWCPESEAH IPLPPAPEGC PWSRLLGIG GHLSPQGLIT LPEEHPCLKA PRLRCQSKL AQAPGLRAGE RSPEESLGR RKRNVNTAPQ FQPPSYQATV PENQAPGTPV ASLRAIDPDE GEAGRLEYTM DALFDSRSNQ FFLSDPVTGA VTTAEELDRE TKSTHVRVT AQDHGMPRR NANILYRLLE GSGGSPSEVF EIDPRSGVIR TRGPVDREEV NLEVGYEVLV VRATDGDAPP TTAAVFLSVE DDNDNAPQFS EKRYVVQVRE DVTGPAPVLR ESYQLTVEAS DQGRDPGPRS GNARGQFYLD AQTGALDVVS PLDYETKEY TLRVRAQDGG VTASDRDKGS NAVVHYSIMS NAPIFVSTPF QATVLDVVS GYLVLHVQAI DADAGDNARL RPPLSNVSGV VVTVLDIND NAPIFVSTPF QATVLDVVS GYLVLHVQAI DADAGDNARL EYRLAGVGHG FPFTINNGTG WISVAEELDR EEDVFSYFVG EARDHGTAL TASASVSTV LDVNDNNPTF TQPEYTVRLN EDAAVGTSVV TVSAVDRDAH SVITYQITSG NTRNRSITS QSGGGLVSLA LPLDYKLERQ YVLAVTASDG TRQDTAQIV NVTDANTHRP VFQSSHYTVN VNEDRPAGTT VVLISATDE TGENARITYE MEDSIPQFRI DADTGAVTQ AELDYEDQVS YTLAITARDN GIPQKSDTTY LEILVNDVND NAQFLRDSY QGSVYEDVPP FTSVLQISAT DRDSGLNGRV FYTFQGGDDG DGDFIVESTS GIVRTLRLD RENVAYVLR AYAVDKGMPP ARTPMEVTVT VLDVNDNPPV FEQDEFDFV EENSPIGLAV ARVTATDPDE GTNAQIMYQI</p>	

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525 160397 Latrophilin- NM_012302 Homo sapiens

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692	127	127	5-HT1A Receptor	P08908	595	CAPASFERKERNAEAKRKM	Homo sapiens
693	127	127	5-HT1A Receptor	P08908	608	GRIFRAARFRIRKTVKKVE	Homo sapiens
694	127	127	5-HT1A Receptor	P08908	610	RTPEDRSDPDACTISK	Homo sapiens
695	127	127	5-HT1A Receptor	P08908	612	RHGASAPAPQPKKSVNGE	Homo sapiens
696	128	128	5-HT1B Receptor	P28222	585	KQTPNRTGKRLTRAQLITD	Homo sapiens
697	128	128	5-HT1B Receptor	P28222	586	SPGSTSSVTSINSRVPD	Homo sapiens
698	128	128	5-HT1B Receptor	P28222	598	KRVSDALLEKKKLMA	Homo sapiens
699	128	128	5-HT1B Receptor	P28222	599	ANLSSAPSQNCsAKD	Homo sapiens
700	129	129	5-HT1D Receptor	P28221	577	IKLADsALERKRISAA	Homo sapiens
701	129	129	5-HT1D Receptor	P28221	588	QEA SNRS LNATETSEA	Homo sapiens
702	129	129	5-HT1D Receptor	P28221	589	RIYRAARNRILNPPSL	Homo sapiens
703	129	129	5-HT1D Receptor	P28221	590	KAGEEMSDCLVNTSQIS	Homo sapiens
704	130	130	5-HT1E Receptor	P28566	815	RHLSNRSTDSQNSFASC	Homo sapiens
705	130	130	5-HT1E Receptor	P28566	817	CTTEASMAIRPKITEKM	Homo sapiens
706	130	130	5-HT1E Receptor	P28566	818	DNDLDHPGERQQISST	Homo sapiens
707	130	130	5-HT1E Receptor	P28566	2738	CVSDFSTSDPTTEFEK	Homo sapiens
708	130	130	5-HT1E Receptor	P28566	2739	RIYHAAKSLYQKRGSSR	Homo sapiens
709	131	131	5-HT1F Receptor	P30939	604	ESGEKTSKSVTSYVL	Homo sapiens
710	131	131	5-HT1F Receptor	P30939	606	DKCKISEEMSNFLAWLG	Homo sapiens
711	131	131	5-HT1F Receptor	P30939	864	IAKEEVNGQVLLSEGE	Homo sapiens
712	131	131	5-HT1F Receptor	P30939	869	STVRSLSRSEFKHEKSWR	Homo sapiens
713	132	132	5-HT2A Receptor	CAA01675.1	1106	DAFNWTVDSERNINLSC	Homo sapiens
714	132	132	5-HT2A Receptor	CAA01675.1	1107	FGLQDDSKVKEGSC	Homo sapiens
715	132	132	5-HT2A Receptor	CAA01675.1	1108	PGSYTGRRTMQSISNEQKAC	Homo sapiens
716	132	132	5-HT2A Receptor	CAA01675.1	1109	CSMVALGKQHSSEASKDNSD	Homo sapiens
717	132	132	5-HT2A Receptor	CAA01675.1	1110	NTIPALAYKSSQLQM/GQ	Homo sapiens
718	133	133	5-HT2B Receptor	P41595	1111	KGIETDVDPNPNITC	Homo sapiens
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728	134	5-HT2C Receptor	NP_000859.1	1826	RNAVHSFLVHLIGLLVWQCD	Homo sapiens
729	134	5-HT2C Receptor	NP_000859.1	1829	CDISVSPVAIVTDIFNTSD	Homo sapiens
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744	139	5-HT7 Receptor	P34969	658	EVTASPARTWDAPPDNASGC	Homo sapiens
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746	139	5-HT7 Receptor	P34969	660	CANILRLKHERKNISIFKR	Homo sapiens
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748	272	Adenosine A1 Receptor	AAA17544.1	8	CHKPSILTYAIFLT	Homo sapiens
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751	272	Adenosine A1 Receptor	AAA17544.1	11	NDHFRCCQPAPIDEDLPEER	Homo sapiens
752	272	Adenosine A1 Receptor	P25099	286	CQKPPIDEDLPEEKAE	Rattus norvegicus
753	272	Adenosine A1 Receptor	P25099	302	QPKPPIDEDLPEEKAE	Rattus norvegicus
754	272	Adenosine A1 Receptor	AAA17544.1	303	MPPSISAFQAAYIGIEVLI	Homo sapiens
755	273	Adenosine A2a Receptor	P29274	1237	QGNLTGLPDVELLSHELKVC	Homo sapiens
756	273	Adenosine A2a Receptor	P29274	1238	MPIMGSSVMITVELAIA	Homo sapiens
757	273	Adenosine A2a Receptor	P29274	1239	RSHVLRQQEPFKAAGT	Homo sapiens
758	273	Adenosine A2a Receptor	P11617	1240	RIREFRQTFRKIIRSH	Canis familiaris
759	274	Adenosine A2b Receptor	P29275	676	KDSATNNCTEPWDGTINES	Homo sapiens
760	274	Adenosine A2b Receptor	P29275	677	CRQLQRTELMDHSRTLQRE	Homo sapiens
761	274	Adenosine A2b Receptor	P29275	678	RNRDFRYTFHKISRYLLC	Homo sapiens
762	274	Adenosine A2b Receptor	P29275	679	CQADVKSGNGQAGVQP	Homo sapiens

763	274	Adenosine A2b Receptor	P29275	680	CVTLFQPAQGKNPKW	Homo sapiens
764	274	Adenosine A2b Receptor	P29275	2714	MLLETQDALVVALELVIAL	Homo sapiens
765	275	Adenosine A3 Receptor	P33765	683	IFYIIRNKLSLNLNSKE	Homo sapiens
766	275	Adenosine A3 Receptor	P33765	686	NMKLTSEYHRNVTLSC	Homo sapiens
767	275	Adenosine A3 Receptor	P33765	687	AYKIKKFKETYLILKAC	Homo sapiens
768	275	Adenosine A3 Receptor	P33765	689	TGAFYGREFKTAKSLF	Homo sapiens
769	275	Adenosine A3 Receptor	P33765	2296	KRVTHRRRWLALGLC	Homo sapiens
770	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	4	CPRVVLPEEIFFTIS	Homo sapiens
771	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	5	MGYLKPRGFSFETADDIDS	Homo sapiens
772	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	6	RYHSIVIMRRTVVLT	Homo sapiens
773	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	7	AFRSPELRDAFKKMIFC	Homo sapiens
774	376	Alpha 1d-adrenoceptor	AAA35496.1	12	RSTIRSLAAGVKRERKASE	Homo sapiens
775	376	Alpha 1d-adrenoceptor	AAA35496.1	13	KEVPDPDERFCGITEAG	Homo sapiens
776	376	Alpha 1d-adrenoceptor	AAA35496.1	14	RSTEMVQRLRMEAVQ	Homo sapiens
777	376	Alpha 1d-adrenoceptor	AAA35496.1	15	PRPSCAPKSPACRTRSP	Homo sapiens
778	377	Alpha 1b-adrenoceptor	P35368	696	KEMNSKELTRIHSK	Homo sapiens
779	377	Alpha 1b-adrenoceptor	P35368	697	GGSLERSQSRKDSLDDSGSC	Homo sapiens
780	377	Alpha 1b-adrenoceptor	P35368	698	APEPPGRRGRHDSGPL	Homo sapiens
781	377	Alpha 1b-adrenoceptor	P35368	699	KLTTEPSPGTDGGASNGGC	Homo sapiens
782	379	Alpha 1c-adrenoceptor	AA93114.1	1245	GSGMASAKTKHFSVR	Homo sapiens
783	379	Alpha 1c-adrenoceptor	AA93114.1	1246	RIPVGSRETFRISKTDGVC	Homo sapiens
784	379	Alpha 1c-adrenoceptor	AA93114.1	1247	SSMPRGSARITVSKDQSSC	Homo sapiens
785	379	Alpha 1c-adrenoceptor	AA93114.1	1248	ESRGLKSGLTKDKSDS	Homo sapiens
786	387	Alpha 2a-adrenoceptor	P08913	1343	ERRPGLGPERSAGPG	Homo sapiens
787	387	Alpha 2a-adrenoceptor	P08913	1344	PGEAPAGPRDLDALD	Homo sapiens
788	387	Alpha 2a-adrenoceptor	P08913	1345	RGPRGKGKARASQVKPGD	Homo sapiens
789	387	Alpha 2a-adrenoceptor	P08913	1346	RGPGATGIGTPAAGPGEE	Homo sapiens
790	387	Alpha 2a-adrenoceptor	P08913	1347	RVGAAKASRWGRGNRE	Homo sapiens
791	388	Alpha 2b-adrenoceptor	P18089	1348	IVKGDQGPQPRGRPQC	Homo sapiens

792	388	Alpha 2b-adrenoceptor	P18089	1349	RSNRRGPRAKGGPGQGE	Homo sapiens
793	388	Alpha 2b-adrenoceptor	P18089	1350	ASAREVNGHSKSTGEK	Homo sapiens
794	388	Alpha 2b-adrenoceptor	P18089	1351	RGVGAIGGQWRRRAH	Homo sapiens
795	389	Alpha 2c-adrenoceptor	P18825	1352	RAPVGPDGASPTENG	Homo sapiens
796	389	Alpha 2c-adrenoceptor	P18825	1353	RTGTARPRPPTWSRTR	Homo sapiens
797	389	Alpha 2c-adrenoceptor	P18825	1354	ASRSPGGGRLSRASS	Homo sapiens
798	389	Alpha 2c-adrenoceptor	P18825	1355	RSVEFFLSRRRRARSSVC	Homo sapiens
799	599	Bradykinin B1 Receptor	P46663	798	PMASGRQRRRRQARVTC	Homo sapiens
800	599	Bradykinin B1 Receptor	P46663	799	NYHILASLRTRREEVSR	Homo sapiens
801	599	Bradykinin B1 Receptor	P46663	800	RVRGPKDSKTTAULT	Homo sapiens
802	599	Bradykinin B1 Receptor	P46663	801	VGRLFRITKAWELYKQC	Homo sapiens
803	600	Bradykinin B2 Receptor	AAB02793.1	794	FRIMKEYSDEGHNVTC	Homo sapiens
804	600	Bradykinin B2 Receptor	AAB02793.1	795	CTMQIMQVLRNNEMQKFE	Homo sapiens
805	600	Bradykinin B2 Receptor	AAB02793.1	796	CQDERIDVITQIASFM	Homo sapiens
806	600	Bradykinin B2 Receptor	AAB02793.1	797	CRSEPIQMENSMTLRIS	Homo sapiens
807	635	Beta-1 adrenoceptor	AAA51667.1	1357	RVFREAQKQVKKIDSC	Homo sapiens
808	635	Beta-1 adrenoceptor	AAA51667.1	1358	CERRFLGGPARPPSPS	Homo sapiens
809	635	Beta-1 adrenoceptor	AAA51667.1	1359	ANGRAGKRPSRLVALRE	Homo sapiens
810	635	Beta-1 adrenoceptor	AAA51667.1	1360	CARRAARRRHATHGDRPRAS	Homo sapiens
811	635	Beta-1 adrenoceptor	AAA51667.1	1361	CLARPGPPSPGAASD	Homo sapiens
812	635	Beta-1 adrenoceptor	AAA51667.1	1362	CNGGAAADSDSSLDEP	Homo sapiens
813	640	Beta-2 adrenoceptor	NP_000015.1	2654	KRQLQKIDKSEGRFHV	Homo sapiens
814	640	Beta-2 adrenoceptor	NP_000015.1	2656	GEQSGYHVEQEKENKLLC	Homo sapiens
815	640	Beta-2 adrenoceptor	NP_000015.1	2662	APNRSHAPDHDVTQQR	Homo sapiens
816	640	Beta-2 adrenoceptor	NP_000015.1	2663	VPLVIMVFVSRVFQE	Homo sapiens
817	643	Beta-3 adrenoceptor	P13945	1390	RGELGRFPPEESPAP	Homo sapiens
818	643	Beta-3 adrenoceptor	P13945	1391	SRSLAPAPVGTCAPE	Homo sapiens
819	643	Beta-3 adrenoceptor	P13945	1392	GVPACGRRPARLLPLRE	Homo sapiens
820	643	Beta-3 adrenoceptor	P13945	1393	PSGVPAARSSPAQPRLC	Homo sapiens
821	688	Opsin, blue-sensitive	NP_001699.1	1753	EEFYLFKNISSVGPWDGPQ	Homo sapiens
822	688	Opsin, blue-sensitive	NP_001699.1	1754	CGPDWYTVGTYRSESYT	Homo sapiens
823	688	Opsin, blue-sensitive	NP_001699.1	1755	NNRNHGLDLRLVTIPS	Homo sapiens
824	688	Opsin, blue-sensitive	NP_001699.1	1756	IMKMVCGKAMIDESDT	Homo sapiens
825	692	Bombesin Receptor Subtype-3	AAA35604.1	20	SITNDTESSSVVSNDNINIK	Homo sapiens
826	692	Bombesin Receptor Subtype-3	AAA35604.1	21	KAVVKPLERQPSNAILKTC	Homo sapiens

827	692	Bombesin Receptor Subtype-3	AAA35604.1	22	RDPNKNMTFESCSTSPVSKK	Homo sapiens
828	692	Bombesin Receptor Subtype-3	AAA35604.1	23	RTLYKSTLNIPTEEQSHARK	Homo sapiens
829	692	Bombesin Receptor Subtype-3	AAA35604.1	24	KSFQKHFKAKQLFCCKAERPE	Homo sapiens
830	692	Bombesin Receptor Subtype-3	NP_001718.1	2286	NKGWSDNSPGIEALC	Homo sapiens
831	692	Bombesin Receptor Subtype-3	NP_001718.1	2287	GRQPHSPNQTLISITNDE	Homo sapiens
832	692	Bombesin Receptor Subtype-3	NP_001718.1	2288	RPEPPVADTSLTLAV	Homo sapiens
833	692	Bombesin Receptor Subtype-3	NP_001718.1	2289	SEISVTSFTGCSVKQAEDR	Homo sapiens
834	729	CXC Chemokine Receptor 5	P32302	1382	ELDRLDNVNDTSLVENHLC	Homo sapiens
835	729	CXC Chemokine Receptor 5	P32302	1383	SGGHHNNSLPRICTFSQE	Homo sapiens
836	729	CXC Chemokine Receptor 5	P32302	1384	CYGVVHRLRQAGRRP	Homo sapiens
837	729	CXC Chemokine Receptor 5	P32302	1385	CQLFPSWRRSSSESENA	Homo sapiens
838	735	C-C Chemokine Receptor 1	P32246	305	TEDYDTTEFDYGDATPC	Homo sapiens
839	735	C-C Chemokine Receptor 1	P32246	1242	ASMPGLYFSKTQWEFTHTC	Homo sapiens
840	735	C-C Chemokine Receptor 1	P32246	1243	CSLHFPHESLREWKLFQA	Homo sapiens
841	735	C-C Chemokine Receptor 1	P32246	1244	TLISVFQDFLTHEC	Homo sapiens
842	737	C-C Chemokine Receptor 3	P51677	1386	CSALYPEDTVVSWRHF	Homo sapiens
843	737	C-C Chemokine Receptor 3	P51677	1387	PEFIFYETEELFEETLC	Homo sapiens
844	737	C-C Chemokine Receptor 3	P51677	1388	SSYQSILFGNDCERSK	Homo sapiens
845	737	C-C Chemokine Receptor 3	P51677	1389	GRVIFLPSEKLETS	Homo sapiens
846	737	C-C Chemokine Receptor 3	P51677	1751	DDVGLLCEKADTRALMAQFV	Homo sapiens
847	738	C-C Chemokine Receptor 4	P51680	306	MINATEVIDITQDETYYNSW	Mus musculus
848	738	C-C Chemokine Receptor 4	P51679	348	DESIYSNYLYESIPKPC	Homo sapiens
849	738	C-C Chemokine Receptor 4	P51679	351	DTPSSSYTQSTMDHDLHD	Homo sapiens
850	738	C-C Chemokine Receptor 4	P51679	353	LETLEVEVLQDCIFE	Homo sapiens
851	738	C-C Chemokine Receptor 4	P51679	491	RNHTYCKTKYSLNSTWK	Homo sapiens
852	741	C-C Chemokine Receptor 7	P32248	748	CQDEVTDDYIGDNTTVD	Homo sapiens
853	741	C-C Chemokine Receptor 7	P32248	846	PELLYSDLQRSSEQAMRC	Homo sapiens
854	741	C-C Chemokine Receptor 7	P32248	847	QLRQWSSCRHRRSSMSVE	Homo sapiens
855	741	C-C Chemokine Receptor 7	P32248	848	GVKFRNDLFKFLDGLGC	Homo sapiens
856	742	C-C Chemokine Receptor 8	P51685	359	PDIFSSPCDAELUQTNG	Homo sapiens

857	742	C-C Chemokine Receptor 8	P51685	360	KILHLKRCQNHNTKAIR	Homo sapiens
858	742	C-C Chemokine Receptor 8	P51685	362	SQIFNYLGRQMPRESC	Homo sapiens
859	742	C-C Chemokine Receptor 8	P51685	493	FVGEKFKHLSEIFQKSC	Homo sapiens
860	752	CXC Chemokine Receptor 3	P49682	1371	ENFSSYDYGENSEDSC	Homo sapiens
861	752	CXC Chemokine Receptor 3	P49682	1372	CYAHILAVLLVSRGQRRURA	Homo sapiens
862	752	CXC Chemokine Receptor 3	P49682	1373	MVLEVSDHQVLDNAEVAALL	Homo sapiens
863	752	CXC Chemokine Receptor 3	P49682	1374	CPNQRGLQRQPSRRD	Homo sapiens
864	753	CXC Chemokine Receptor 4	P30991	1376	TEEMGSGDYDSMKEPC	Homo sapiens
865	753	CXC Chemokine Receptor 4	P30991	1377	KKLRMTDKYRLHLSVAD	Homo sapiens
866	753	CXC Chemokine Receptor 4	P30991	1380	CIISKLSHSGHGQKRKALK	Homo sapiens
867	753	CXC Chemokine Receptor 4	P30991	1381	KILSKGKRGHSSVSTE	Homo sapiens
868	755	Complement Component 3a Receptor 1	AAC50657.1	25	ENRSLENIIVQPPGEMNDRLD	Homo sapiens
869	755	Complement Component 3a Receptor 1	AAC50657.1	26	KIPSGFPIEDHETSPDND	Homo sapiens
870	755	Complement Component 3a Receptor 1	AAC50657.1	27	RKKARQSIQIGILEAAFSEE	Homo sapiens
871	755	Complement Component 3a Receptor 1	AAC50657.1	28	PQTFQRPSADSLPRGSARLT	Homo sapiens
872	758	Complement Component 5a Receptor 1	P21730	811	DUNTPVDKTSNTLRVPD	Homo sapiens
873	758	Complement Component 5a Receptor 1	P21730	812	CGVDYSHDKRRERAIVRL	Homo sapiens
874	758	Complement Component 5a Receptor 1	P21730	813	CYTFILLRTWSRRATRSIK	Homo sapiens
875	758	Complement Component 5a Receptor 1	P21730	814	QGRLRKSLPSLLRNVLTE	Homo sapiens
876	767	Calcitonin Receptor-like Receptor	Q16602	841	AELEESPEDSIQLGVTR	Homo sapiens
877	767	Calcitonin Receptor-like Receptor	Q16602	843	EFVLIPWRPEGKIAEEV	Homo sapiens
878	767	Calcitonin Receptor-like Receptor	Q16602	844	RRNWNQYKIQFGNSFSNSE	Homo sapiens
879	767	Calcitonin Receptor-like Receptor	Q16602	845	RSASYTVTSDGPGYSHDC	Homo sapiens
880	832	Cannabinoid Receptor 1	AAB18200.1	29	NDIQYEDIKGDMAKLG	Homo sapiens
881	832	Cannabinoid Receptor 1	AAB18200.1	30	KENEENIQCGENFMDIE	Homo sapiens
882	832	Cannabinoid Receptor 1	AAB18200.1	31	EDGKVQVTRPDQARMDIR	Homo sapiens

883	832	Cannabinoid Receptor 1	AAB18200.1	32	CEGTAGQLDNSMGDS	Homo sapiens
884	832	Cannabinoid Receptor 1	AAB18200.1	274	MKSILDGLADITFR	Homo sapiens
885	832	Cannabinoid Receptor 1	AAB18200.1	297	NKLSFKENEENIQ	Homo sapiens
886	833	Cannabinoid Receptor 2	CAA52376.1	33	KDGLDSNPMKDYMILSGPK	Homo sapiens
887	833	Cannabinoid Receptor 2	CAA52376.1	34	QDRQVPGMARMRLDVRLAKT	Homo sapiens
888	833	Cannabinoid Receptor 2	CAA52376.1	35	KEEAPRSSVTETADGK	Homo sapiens
889	833	Cannabinoid Receptor 2	CAA52376.1	36	RSGEIRSSAHHCLAHWKCC	Homo sapiens
890	922	Leukocyte Antigen CD97	NP_001775.1	2644	GRDPPAKDVMGPRQELLC	Homo sapiens
891	922	Leukocyte Antigen CD97	NP_001775.1	2646	CSPGYEPVSGAKTFKN	Homo sapiens
892	922	Leukocyte Antigen CD97	NP_001775.1	2647	FSSFSEIITPTETC	Homo sapiens
893	922	Leukocyte Antigen CD97	NP_001775.1	2648	CRPGWKPRHGIPNNQK	Homo sapiens
894	922	Leukocyte Antigen CD97	NP_001775.1	2649	DGEAGRDPPAKDVMGPR	Homo sapiens
895	922	Leukocyte Antigen CD97	NP_001775.1	2650	ANASLNHSHKKQAELE	Homo sapiens
896	922	Leukocyte Antigen CD97	NP_001775.1	2651	RLSAVNSIFLSHNNTKE	Homo sapiens
897	922	Leukocyte Antigen CD97	NP_001775.1	2652	KLTKGFSEINPDMKKL	Homo sapiens
898	922	Leukocyte Antigen CD97	NP_001775.1	2680	KLVDLMEAPGDVEAL	Homo sapiens
899	922	Leukocyte Antigen CD97	NP_001775.1	2681	RFFDKVQDLGRDSKTS	Homo sapiens
900	941	EMR1 Hormone Receptor	Q14246	1180	RAEYLDIESKVINKEC	Homo sapiens
901	941	EMR1 Hormone Receptor	Q14246	2675	CVMHSWEGHIRTRKPNK	Homo sapiens
902	941	EMR1 Hormone Receptor	Q14246	2677	CLLNGQVREYKRWITGKTP	Homo sapiens
903	941	EMR1 Hormone Receptor	Q14246	2678	CLLNGQVREYKRWITGK	Homo sapiens
904	941	EMR1 Hormone Receptor	Q14246	2679	SGHLSCQGLKASCE	Homo sapiens
905	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1183	GTALANGTGELSEHQ	Homo sapiens
906	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1184	ADSLIEVFNLHERYYD	Homo sapiens
907	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1185	VRAHRHRLPRRQKA	Homo sapiens
908	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1186	DKLRLYIEQKTNLPALNRF	Homo sapiens
909	978	Cholecystokinin A Receptor	P32238	820	AKERKPSITSSGKYEDSDGC	Homo sapiens
910	978	Cholecystokinin A Receptor	P32238	821	CYLQKTRPPRKLELRQ	Homo sapiens
911	978	Cholecystokinin A Receptor	P32238	822	SANAWRAYDTASAERR	Homo sapiens
912	978	Cholecystokinin A Receptor	P32238	823	CPNPGPPGARGEVGEE	Homo sapiens
913	1103	Corticotropin releasing factor Receptor 2	Q13324	453	CEPILDDKQRKYDLHYRIAL	Homo sapiens
914	1103	Corticotropin releasing factor Receptor 2	Q13324	502	QLVDHEVHESNEVWC	Homo sapiens

915	1103	factor Receptor 2	Q13324	505	DPEGPYSYCNITLDQIGTCW	Homo sapiens
916	1103	Corticotropin releasing factor Receptor 2	LR43	507	ALLEQYCHTIMLTINLSG	Homo sapiens
917	1240	Dopamine Receptor D1	CAA41734.1	41	SSHHEPRGSISKEC	Homo sapiens
918	1240	Dopamine Receptor D1	CAA41734.1	42	KAKPTSPSDGNATSLAETID	Homo sapiens
919	1240	Dopamine Receptor D1	CAA41734.1	43	CSQPESSFKMSFKRE	Homo sapiens
920	1240	Dopamine Receptor D1	CAA41734.1	44	EDUKKEEAAGIARPLEK	Homo sapiens
921	1241	Dopamine Receptor D5	P21918	1407	PWEEDFWEPDVNAENC	Homo sapiens
922	1241	Dopamine Receptor D5	P21918	1408	CAPDTSLRASIKKETK	Homo sapiens
923	1241	Dopamine Receptor D5	P21918	1409	PNAVTPGNREVNDDEE	Homo sapiens
924	1241	Dopamine Receptor D5	P21918	1410	QTSPDGDPAESVWELDC	Homo sapiens
925	1242	Dopamine Receptor D2	P14416	1403	KRSSRAFRALHRLAPLKGNC	Homo sapiens
926	1242	Dopamine Receptor D2	P14416	1404	CTVIMKSNNGSFPVNRIRV	Homo sapiens
927	1242	Dopamine Receptor D2	P14416	1405	KPEKNGHAKDHPKIAK	Homo sapiens
928	1242	Dopamine Receptor D2	P14416	1406	GKTRTSLKTMRRKLSQQKE	Homo sapiens
929	1243	Dopamine Receptor D3	P35462	1398	KQRRRKRLITRQNSQC	Homo sapiens
930	1243	Dopamine Receptor D3	P35462	1399	CNSVRPGFPQQTLSPDP	Homo sapiens
931	1243	Dopamine Receptor D3	P35462	1400	CQDIALGGPGFQERGGGE	Homo sapiens
932	1243	Dopamine Receptor D3	P35462	1401	KREEKTRNSLSPTIAP	Homo sapiens
933	1243	Dopamine Receptor D3	P35462	1402	STSLKLGPLQPRGVPLRE	Homo sapiens
934	1244	Dopamine Receptor D4	P21917	1394	VAVAVPLRYNRQGGSR	Homo sapiens
935	1244	Dopamine Receptor D4	P21917	1395	EVARRAKLHGRAPRRP	Homo sapiens
936	1244	Dopamine Receptor D4	P21917	1396	PPSPTPPAPRLPQDPC	Homo sapiens
937	1244	Dopamine Receptor D4	P21917	1397	PPQTTPPQTRIRIRAKITGRE	Homo sapiens
938	1267	Op1old Receptor, delta 1 (OPRD1)	AAA18789.1	222	DAYPSAFPSAGANASGP	Homo sapiens
939	1267	Op1old Receptor, delta 1 (OPRD1)	AAA18789.1	224	LVDIDRRDPLVVAALHLC	Homo sapiens
940	1267	Op1old Receptor, delta 1 (OPRD1)	AAA18789.1	225	KRCFRQLCRKPCGRPD	Homo sapiens
941	1267	Op1old Receptor, delta 1 (OPRD1)	AAA18789.1	226	SRPREATARERVATAC	Homo sapiens
942	1424	Duffy Antigen	AAC50055.1	1411	TENSSQLDFEDVWNSS	Homo sapiens
943	1424	Duffy Antigen	AAC50055.1	1412	NDSFPDGDYDANILEAAAPC	Homo sapiens
944	1424	Duffy Antigen	AAC50055.1	1413	CHASLGHLRGAGQVPG	Homo sapiens

945	1424	Duffy Antigen	AAC50055.1	1415	FGAKGLKKALGMGPGP	Homo sapiens
946	1451	EBV-Induced Gene 2	AAA35924.1	45	KQEAERITCMEYPNFEET	Homo sapiens
947	1451	EBV-Induced Gene 2	AAA35924.1	46	KLFRITAKQNPLTEKSGVNKK	Homo sapiens
948	1451	EBV-Induced Gene 2	AAA35924.1	47	KSAPEENSIREMTETQM	Homo sapiens
949	1451	EBV-Induced Gene 2	AAA35924.1	48	CKGYKRVKVMRLMKRQ	Homo sapiens
950	1486	Endothelin B Receptor	BAA14398.1	54	GEERGFPDRATPLLTAE	Homo sapiens
951	1486	Endothelin B Receptor	BAA14398.1	55	RSLAPAEVPGDRTAGSP	Homo sapiens
952	1486	Endothelin B Receptor	BAA14398.1	56	PRTISPPCCGGPIEKE	Homo sapiens
953	1486	Endothelin B Receptor	BAA14398.1	57	EEKQSLEEKQSCCLKFKAND	Homo sapiens
954	1488	Endothelin A Receptor	AAB25530.1	49	RYSTNLNHHVDDFTFRGTE	Homo sapiens
955	1488	Endothelin A Receptor	AAB25530.1	50	NRRNGSLRIALSEHLK	Homo sapiens
956	1488	Endothelin A Receptor	AAB25530.1	51	EYRGEQHKTCMLNATSK	Homo sapiens
957	1488	Endothelin A Receptor	AAB25530.1	53	KNHDQNNHNDRSSHKD	Homo sapiens
958	1598	Calcium-Sensing Receptor (CASR)	P41180	1425	RPGIEKFREEAEERDIC	Homo sapiens
959	1598	Calcium-Sensing Receptor (CASR)	P41180	1426	CHLQEGAKGPLPVDIFLR	Homo sapiens
960	1598	Calcium-Sensing Receptor (CASR)	P41180	1427	GHEESGDRFSNSSTAFRLC	Homo sapiens
961	1598	Calcium-Sensing Receptor (CASR)	P41180	1428	KGIIEGEPTCCFECVECPDG	Homo sapiens
962	1598	Calcium-Sensing Receptor (CASR)	P41180	1429	CSTAAHAFKV/AARATLRRSN	Homo sapiens
963	1598	Calcium-Sensing Receptor (CASR)	P41180	1430	PQKNAMAHNRNTHQNSLE	Homo sapiens
964	1598	Calcium-Sensing Receptor (CASR)	P41180	1431	RPEVEDPEELSPALVVSSQ	Homo sapiens
965	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1878	ASWGGTPEERLKV/AITMLTA	Homo sapiens
966	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1879	SEDSAPTNDTAANSAS	Homo sapiens
967	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1880	SYESAGYTVLRILPLVL	Homo sapiens
968	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1881	PVFLFTVTIPNGD	Homo sapiens
969	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	2612	EERLKV/AITMLTARGIIRFV	Homo sapiens
970	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	2613	ERALSEDSAPTNDTAANSAS	Homo sapiens

971	1681	Like Receptor	Follicle Stimulating Hormone	AAA52477.1	58	QESKVTEIPSDLPNAIELR	Homo sapiens
972	1681	Receptor	Follicle Stimulating Hormone	AAA52477.1	59	DVLEIEADVFSNLPK	Homo sapiens
973	1681	Receptor	Follicle Stimulating Hormone	AAA52477.1	60	RNGHCSSAPRVTSYSTV	Homo sapiens
974	1681	Receptor	Follicle Stimulating Hormone	AAA52477.1	61	RGQRSSLAEDNESSYRSGFD	Homo sapiens
975	1681	Receptor	Follicle Stimulating Hormone	NP_000136.1	2231	CHHRICHCSNRVFLCQE	Homo sapiens
976	1681	Receptor	Follicle Stimulating Hormone	NP_000136.1	2232	LRVIGKGAFSFGDLEK	Homo sapiens
977	1681	Receptor	Follicle Stimulating Hormone	NP_000136.1	2233	LYVMSLLVLNVLAFFVIC	Homo sapiens
978	1681	Receptor	Follicle Stimulating Hormone	NP_000136.1	2234	CNKSILRQEVDMTQARGQR	Homo sapiens
979	1681	Receptor	Follicle Stimulating Hormone	NP_000136.1	2236	SDNNNLEELPNDVFHGA	Homo sapiens
980	1681	Receptor	Follicle Stimulating Hormone	NP_000136.1	2238	KLVALMEASLTYPHC	Homo sapiens
981	1681	Receptor	Follicle Stimulating Hormone	NP_000136.1	2241	SFESVILWLKNGIQEIHNC	Homo sapiens
982	1681	Receptor	Follicle Stimulating Hormone	NP_000136.1	2248	IHSLQKVLLDQDNINIHT	Homo sapiens
983	1681	Receptor	Follicle Stimulating Hormone	NP_000136.1	2250	KANNLLYITPEAFQNLIP	Homo sapiens
984	1681	Receptor	Follicle Stimulating Hormone	NP_000136.1	2251	CYEMQAQIYRTISSTVH	Homo sapiens
985	1726	G Protein-Coupled Receptor RDC1		AAA62370.1	1437	TNTPSSRKKMVRRWVC	Homo sapiens
986	1726	G Protein-Coupled Receptor RDC1		AAA62370.1	1439	ARASASSDQEKHSRK	Homo sapiens
987	1726	G Protein-Coupled Receptor RDC1		AAA62370.1	1440	KYSAKTGLTKLIDASRVSET	Homo sapiens
988	1726	G Protein-Coupled Receptor RDC1		AAA62370.1	1893	PDTYYLKTVTSASNNETYC	Homo sapiens
989	1762	Galanin Receptor GalR1		AAA50767.1	192	GNSLVITVLARSKPGKPR	Homo sapiens
990	1762	Galanin Receptor GalR1		AAA50767.1	193	PRASNQTFCWEQWDPDRHKK	Homo sapiens

991	1762	Galanin Receptor GalR1	AAA50767.1	194	KKLKNMSKSEASKKTAQ	Homo sapiens
992	1762	Galanin Receptor GalR1	AAA50767.1	195	GNSLVITVLARSKP	Homo sapiens
993	1762	Galanin Receptor GalR1	AAA50767.1	196	RKDSHLSDTKENKSRID	Homo sapiens
994	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1250	QTAGELYQRWERYRREC	Homo sapiens
995	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1251	CENPEKNEAFDQRLIER	Homo sapiens
996	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1253	CRLRSLGEEQRQLPERAFR	Homo sapiens
997	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1276	PTSRGLSSGTLPGPNEA	Homo sapiens
998	1813	Gastrin-Releasing Peptide Receptor	P30550	829	CNISSHSADLPVNDWHPG	Homo sapiens
999	1813	Gastrin-Releasing Peptide Receptor	P30550	830	SDLHPFHEESTNQTFISC	Homo sapiens
1000	1813	Gastrin-Releasing Peptide Receptor	P30550	831	YNLPVEGNIHVKKQIES	Homo sapiens
1001	1813	Gastrin-Releasing Peptide Receptor	P30550	832	CQPGLIIRSHSTGRSTT	Homo sapiens
1002	1814	Cholecystokinin B Receptor	Q16144	1281	CEPRIRGAGTRELEAIR	Homo sapiens
1003	1814	Cholecystokinin B Receptor	Q16144	1282	RVRNQGGPLGAVHQNGRC	Homo sapiens
1004	1814	Cholecystokinin B Receptor	Q16144	1283	LRFDGSDSDSQSRVR	Homo sapiens
1005	1814	Cholecystokinin B Receptor	Q16144	1284	CRPETGAVGKDSGDCY	Homo sapiens
1006	1834	Glucagon Receptor	P47871	837	DGLLRTRYSQKIGDDL	Homo sapiens
1007	1834	Glucagon Receptor	P47871	838	CGPDGQWVRGPRGQPWRDAS	Homo sapiens
1008	1834	Glucagon Receptor	P47871	839	CQMDGFEIEVQKEVAKMYSS	Homo sapiens
1009	1834	Glucagon Receptor	P47871	840	TSNHRASSSPGHGPPSKE	Homo sapiens
1010	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	206	KLQKWTQKKEKGKLSRMK	Homo sapiens
1011	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	207	DRSLAIRPLALKSNSKVGQ	Homo sapiens
1012	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	208	RMHLADSSGQTKVFSQC	Homo sapiens
1013	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	209	DPHELQLNQSKNNIPRARLK	Homo sapiens
1014	1945	Opsin, green-sensitive	NP_000504.1	1746	QRLAGRHPQDSYEDSTQSS	Homo sapiens
1015	1945	Opsin, green-sensitive	NP_000504.1	1747	CKPFGNVRFDKLAIVG	Homo sapiens
1016	1945	Opsin, green-sensitive	NP_000504.1	1748	KTSCGPDVFGSSYPGVQS	Homo sapiens

1017	1945	Opsin, green-sensitive	NP_000504.1	1750	CILQLFGKVVDDGSELSS	Homo sapiens
1018	1945	Opsin, green-sensitive	NP_000504.1	1767	STRGPEGPNVHIAPR	Homo sapiens
1019	1945	Opsin, green-sensitive	NP_000504.1	1768	TNGLVLAATMKFKKL	Homo sapiens
1020	1945	Opsin, green-sensitive	NP_000504.1	1769	ELSSASKTEVSSVSSP	Homo sapiens
1021	1951	Growth Hormone	Q92847	581	ADLDWDASPGNDSLGD	Homo sapiens
1022	1951	Secretagogue Receptor	Q92847	582	GVEHENGTDPTDNEC	Homo sapiens
1023	1951	Secretagogue Receptor	Q92847	583	KLWRRRRGDAVVGASL	Homo sapiens
1024	1951	Secretagogue Receptor	Q92847	584	SQIRKLSTLKDESSRAW	Homo sapiens
1025	1954	Secretagogue Receptor	Q02643	833	REDESACLAQAAEEMPNTILG	Homo sapiens
1026	1954	Growth Hormone-Releasing Hormone Receptor	Q02643	834	CPDFFSHFSSESGAVKRD	Homo sapiens
1027	1954	Hormone Receptor	Q02643	835	VRKLEPAQGSLSHTQSQ	Homo sapiens
1028	1954	Growth Hormone-Releasing Hormone Receptor	Q02643	836	RTEISRKWHGHDPPELL	Homo sapiens
1029	2120	Histamine H1 Receptor	P35367	1167	GNWHFMQQTSVRRDKC	Homo sapiens
1030	2120	Histamine H1 Receptor	P35367	1168	CQHRELINRSLPSFSEIKL	Homo sapiens
1031	2120	Histamine H1 Receptor	P35367	1169	AGGGSVLKSPSQTPKE	Homo sapiens
1032	2120	Histamine H1 Receptor	P35367	1170	KSPVVFSEQDDREVDKLYC	Homo sapiens
1033	2120	Histamine H1 Receptor	P35367	1171	TAPGKGKLRSGSNTGLD	Homo sapiens
1034	2120	Histamine H1 Receptor	P35367	1172	KRLRSHSRQVWVSLHMINRE	Homo sapiens
1035	2121	Histamine H2 Receptor	P25021	1173	NSRNETSKGNHTSKC	Homo sapiens
1036	2121	Histamine H2 Receptor	P25021	1174	CITYRIFKVARDAQKR	Homo sapiens
1037	2121	Histamine H2 Receptor	P25021	1175	RDQAKRINHSSWKAA	Homo sapiens
1038	2121	Histamine H2 Receptor	P25021	1176	TAFVYRGLRGDDAINE	Homo sapiens
1039	2121	Histamine H2 Receptor	P25021	1177	HKTSLRSNASQLSRTQSRE	Homo sapiens
1040	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	227	DSNGSAGSEDAQLLEPA	Homo sapiens
1041	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	228	KVREDVDVIECSLQFPDDD	Homo sapiens
1042	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	229	RNTVQDPAYLRDIDGMNK	Homo sapiens
1043	2783	Opioid Receptor, kappa 1	AAA63906.1	230	CFPLKMRMERQSTSRVRN	Homo sapiens

1044	2964	(OPRK1) Luteinizing Hormone/Chorlogonadotro pin Receptor	Q14751	1432	CNTGIRKFPDVTKVFSSEN	Homo sapiens
1045	2964	Luteinizing Hormone/Chorlogonadotro pin Receptor	Q14751	1433	KMHNGAFRGATGPKTLD	Homo sapiens
1046	2964	Luteinizing Hormone/Chorlogonadotro pin Receptor	Q14751	1434	CESTVRKVSNTLYSS	Homo sapiens
1047	2964	Luteinizing Hormone/Chorlogonadotro pin Receptor	Q14751	1435	FAVRNPELMATNKDTK	Homo sapiens
1048	2964	Luteinizing Hormone/Chorlogonadotro pin Receptor	Q14751	1436	CKRRAELYRRKDFSAYTSN	Homo sapiens
1049	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	210	ERHITVFRMQLHTRMSNRR	Homo sapiens
1050	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	211	RQRTMRMSRHSRGPRRNRD	Homo sapiens
1051	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	212	KHLATEWNTVSKLVM	Homo sapiens
1052	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	213	ENPTGPTESSDRSASSLN	Homo sapiens
1053	3038	G Protein-Coupled Receptor MRG	AAB21255.1	184	ESQISLSCSLCHSGDQEAQ	Homo sapiens
1054	3038	G Protein-Coupled Receptor MRG	AAB21255.1	185	QQQKATRYYAVVQISAPM	Homo sapiens
1055	3038	G Protein-Coupled Receptor MRG	AAB21255.1	186	DKPEVGRNKKAAAGIDPME	Homo sapiens
1056	3038	G Protein-Coupled Receptor MRG	AAB21255.1	187	EQPHSTQHVENLLPREHRVD	Homo sapiens
1057	3057	Melanocortin 3 Receptor (MC3R)	P41968	451	RLHVKRIAALPPADGVAPQ	Homo sapiens
1058	3057	Melanocortin 3 Receptor (MC3R)	P41968	452	DPLIYAFRSLEURNTFRE	Homo sapiens
1059	3057	Melanocortin 3 Receptor (MC3R)	P41968	562	QAPFFSNQSSSAFCEQVFI	Homo sapiens
1060	3057	Melanocortin 3 Receptor (MC3R)	P41968	563	IVHSDYLTFEDQFIQHMDNI	Homo sapiens

1061	3058	(MC3R) Melanocortin 4 Receptor	AAB33341.1	1032	HSNASESLGKGYSDGGC	Homo sapiens
1062	3058	(MC4R) Melanocortin 4 Receptor	AAB33341.1	1033	KRIAVLPGTGAIRQGA	Homo sapiens
1063	3058	(MC4R) Melanocortin 4 Receptor	AAB33341.1	1035	NSTDIDAQSFVNIDN	Homo sapiens
1064	3058	(MC4R) Melanocortin 4 Receptor	AAB33341.1	1469	NSTHRGMHTSLHLWNRSSYR	Homo sapiens
1065	3059	(MC5R) Melanocortin 5 Receptor	P33032	1022	ATEGNLGPNVKNKSSPC	Homo sapiens
1066	3059	(MC5R) Melanocortin 5 Receptor	P33032	1024	NKHLVIADAFVRHIDN	Homo sapiens
1067	3059	(MC5R) Melanocortin 5 Receptor	P33032	1025	MNSSFHUFLDLNUNAT	Homo sapiens
1068	3059	(MC5R) Melanocortin 5 Receptor	P33032	1026	RYHHIMTARRSGAIIAG	Homo sapiens
1069	3061	(MC1R) Melanocortin 1 Receptor	AAD41352.1	1036	QGSQRILLGSLNSTPT	Homo sapiens
1070	3061	(MC1R) Melanocortin 1 Receptor	AAD41352.1	1038	EAGALVARAAVLQQLD	Homo sapiens
1071	3061	(MC1R) Melanocortin 1 Receptor	AAD41352.1	1039	ALRYHSIVLPRARQA	Homo sapiens
1072	3061	(MC1R) Melanocortin 1 Receptor	AAD41352.1	1040	CQHAQGIARLUHKRQRP	Homo sapiens
1073	3079	Melatonin Receptor type 1a	AAB17720.1	214	HSLKYDKLYSSKNSLC	Homo sapiens
1074	3079	Melatonin Receptor type 1a	AAB17720.1	215	CTARVFFVDSSNDVADR	Homo sapiens
1075	3079	Melatonin Receptor type 1a	AAB17720.1	216	QVRQRVKPDRPKLKP	Homo sapiens
1076	3079	Melatonin Receptor type 1a	AAB17720.1	217	DSSNDVADRVKWKPSPLMTN	Homo sapiens
1077	3080	Melatonin Receptor type 1b	P49286	930	AVRPGWSGAGSARPSR	Homo sapiens
1078	3080	Melatonin Receptor type 1b	P49286	931	LVAIFYDGGWALGEEHC	Homo sapiens
1079	3080	Melatonin Receptor type 1b	P49286	932	LVLQARRKAKPESRLC	Homo sapiens
1080	3080	Melatonin Receptor type 1b	P49286	933	CIQDASKGSHAEGLQSPA	Homo sapiens
1081	3080	Melatonin Receptor type 1b	P49286	934	GEMAPQIPEGLFVTSY	Homo sapiens
1082	3081	Melatonin-Related Receptor	Q13585	751	LAARDPAGQNPDNQLAE	Homo sapiens
1083	3081	Melatonin-Related Receptor	Q13585	752	ARARAHARDQAREQDRAHAC	Homo sapiens
1084	3081	Melatonin-Related Receptor	Q13585	753	DRASGHPKPHSRSSAY	Homo sapiens
1085	3081	Melatonin-Related Receptor	Q13585	754	HPKPAADNPELSASHC	Homo sapiens

1086	3081	Melatonin-Related Receptor	Q13585	755	DDSDLPESSAAPGPT	Homo sapiens
1087	3093	Metabotropic Glutamate Receptor 1	Q13255	879	DDYKIQMKNKSGVVRVC	Homo sapiens
1088	3093	Metabotropic Glutamate Receptor 1	Q13255	880	CRSNTFLNIFRRKKAG	Homo sapiens
1089	3093	Metabotropic Glutamate Receptor 1	Q13255	881	DTSTKTLNVVEEEDA	Homo sapiens
1090	3093	Metabotropic Glutamate Receptor 1	Q13255	882	ERFKLLQEVVWEHERE	Homo sapiens
1091	3094	Metabotropic Glutamate Receptor 2	Q14416	891	DFVRASLSRGADGSRHIC	Homo sapiens
1092	3094	Metabotropic Glutamate Receptor 2	Q14416	892	CVATSEKVGGRAMSRAAFEG	Homo sapiens
1093	3094	Metabotropic Glutamate Receptor 2	Q14416	893	CAAHSIRAVPFEQESK	Homo sapiens
1094	3094	Metabotropic Glutamate Receptor 2	Q14416	894	CDAMRPVNGRRLYKDF	Homo sapiens
1095	3094	Metabotropic Glutamate Receptor 2	Q14416	895	DAPFRPADTHNEVRFD	Homo sapiens
1096	3094	Metabotropic Glutamate Receptor 2	Q14416	896	GKETAPERREVVTLC	Homo sapiens
1097	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	897	GGLPINEKGTGTEEC	Homo sapiens
1098	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	898	EFVRASLTKVDEAEYMC	Homo sapiens
1099	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	899	RSNIRKSYDSVIRELL	Homo sapiens
1100	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	900	CDKHLAIDSSNYEQES	Homo sapiens
1101	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	902	GTRRYTLAEKRETVILKC	Homo sapiens
1102	3096	Metabotropic Glutamate Receptor 4	Q14833	909	PSSLGPKPGHPHMNSIRID	Homo sapiens
1103	3096	Metabotropic Glutamate Receptor 4	Q14833	910	CGSGGPPITKPERVVG	Homo sapiens
1104	3096	Metabotropic Glutamate Receptor 4	Q14833	911	CKLSRHALKKGSHVKK	Homo sapiens
1105	3096	Metabotropic Glutamate Receptor 4	Q14833	913	CPRMDPVDGTQLLYI	Homo sapiens

1106	3096	Metabotropic Glutamate Receptor 4	Q14833	914	RIERMHWPGSGQLPRSC	Homo sapiens
1107	3097	Metabotropic Glutamate Receptor 5	P41594	883	KDYFDYINVGSWDNGL	Homo sapiens
1108	3097	Metabotropic Glutamate Receptor 5	P41594	884	KMDDDEVVSKSNIIRSV	Homo sapiens
1109	3097	Metabotropic Glutamate Receptor 5	P41594	885	GETLRYKDRRLAQHKSEIC	Homo sapiens
1110	3097	Metabotropic Glutamate Receptor 5	P41594	886	NPNQTAVIKPFPKSTE	Homo sapiens
1111	3097	Metabotropic Glutamate Receptor 5	P41594	887	KALYDVAEAEHFPAPA	Homo sapiens
1112	3097	Metabotropic Glutamate Receptor 5	P41594	888	RSPSPITLSHRAGSARTD	Homo sapiens
1113	3097	Metabotropic Glutamate Receptor 5	P41594	889	RESPAAGPEAAAAKPD	Homo sapiens
1114	3098	Metabotropic Glutamate Receptor 6	O15303	903	QALIRGRGDGDEVGVRC	Homo sapiens
1115	3098	Metabotropic Glutamate Receptor 6	O15303	904	KLTSSTQSDSTRKC	Homo sapiens
1116	3098	Metabotropic Glutamate Receptor 6	O15303	905	DVEALQWSDPHEVPSSLC	Homo sapiens
1117	3098	Metabotropic Glutamate Receptor 6	O15303	906	RFQVDEFTCEACPGDM	Homo sapiens
1118	3098	Metabotropic Glutamate Receptor 6	O15303	907	GARPPHSVIDYEEQRT	Homo sapiens
1119	3099	Metabotropic Glutamate Receptor 7	Q14831	917	CIAQSVRIPQERKDRITDFD	Homo sapiens
1120	3099	Metabotropic Glutamate Receptor 7	Q14831	918	NDEDIKQILAAAKRAD	Homo sapiens
1121	3099	Metabotropic Glutamate Receptor 7	Q14831	921	NIEDMQWKGKGVREIPASVC	Homo sapiens
1122	3099	Metabotropic Glutamate Receptor 7	Q14831	2693	IKQLDTPNSRAVVI	Homo sapiens
1123	3099	Metabotropic Glutamate Receptor 7	Q14831	2694	DPPNIIDYDEHKTM	Homo sapiens
1124	3100	Metabotropic Glutamate Receptor 8	O00222	922	CANGDPPIFTKPKDIS	Homo sapiens
1125	3100	Metabotropic Glutamate	O00222	923	CPRMSTIDGKELLYIRA	Homo sapiens

1126	3100	Receptor 8	Metabotropic Glutamate Receptor 8	O00222	924	KVEDMQWAHREHTHPASVC	Homo sapiens
1127	3100	Receptor 8	Metabotropic Glutamate Receptor 8	O00222	925	CESLEINTSSTKITYSYS	Homo sapiens
1128	3100	Receptor 8	Metabotropic Glutamate Receptor 8	O00222	1894	KFYWILTMQRTHSQEYVHS	Homo sapiens
1129	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	231	DGNLSDPCGPNRTNLGGRDS	Homo sapiens
1130	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	232	DRTNHGLENEAETAPLP	Homo sapiens
1131	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	233	IKALVTIPETTFQTVS	Homo sapiens
1132	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	234	RIRQNTRDHPSTANTVDR	Homo sapiens
1133	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1325	SERSQPGAEGLSPETPPGRC	Homo sapiens
1134	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1326	CRAPRLQLQAYSWKEEE	Homo sapiens
1135	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1327	SSEGEELPGSEVVIKMP	Homo sapiens
1136	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1328	KQPPRSSPNTVKRPTKKGRD	Homo sapiens
1137	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1329	CRWDKRRWRKIPKRPGRS	Homo sapiens
1138	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1330	EHNKIQNGKAPRDPVTENC	Homo sapiens
1139	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1331	DSTSVAVASNMIRDDE	Homo sapiens
1140	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1332	ENTVSTSLGHSKDENSQKTC	Homo sapiens
1141	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1333	DEKQNVARKIVKMTK	Homo sapiens
1142	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1831	RIKKDKKEPVANGDPVSPSL	Homo sapiens
1143	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	218	SRSRVHKKHRPEGPKEKKAKT	Homo sapiens
1144	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	219	KKRPPGGRRPGGLRNGKLEEA	Homo sapiens
1145	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	220	DKDTSNESSGSGSATQNTKER	Homo sapiens
1146	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	221	RPAANVARKFASIRNQVRK	Homo sapiens

1147	3227	Muscarinic Acetylcholine Receptor M5	P08912	1334	KAEKRKPAHRLFRSC	Homo sapiens
1148	3227	Muscarinic Acetylcholine Receptor M5	P08912	1335	CSSYPSSSEDEKPAID	Homo sapiens
1149	3227	Muscarinic Acetylcholine Receptor M5	P08912	1336	KESPGEEFSAEETETIV	Homo sapiens
1150	3227	Muscarinic Acetylcholine Receptor M5	P08912	1337	KFRLVVKADGNQETINGC	Homo sapiens
1151	3227	Muscarinic Acetylcholine Receptor M5	P08912	1338	KEPSTKGLNPNPSHQM	Homo sapiens
1152	3378	Tachykinin Receptor 3	NP_001050.1	1757	PAAETWIDGGGVGAD	Homo sapiens
1153	3378	Tachykinin Receptor 3	NP_001050.1	1759	PSQPWANLTNGFVQPSWR	Homo sapiens
1154	3378	Tachykinin Receptor 3	NP_001050.1	1760	SRKKRATPRDPSFNGC	Homo sapiens
1155	3378	Tachykinin Receptor 3	NP_001050.1	2265	ADAVNLTAASLAAGAA	Homo sapiens
1156	3378	Tachykinin Receptor 3	NP_001050.1	2290	SPSALGLPVASAPSPQP	Homo sapiens
1157	3380	Neuromedin B Receptor	P28336	824	ERDFLPASDGTITELVIRC	Homo sapiens
1158	3380	Neuromedin B Receptor	P28336	825	KTUKSAHNLPGEYNE	Homo sapiens
1159	3380	Neuromedin B Receptor	P28336	826	SEVARISLDNSSFTAC	Homo sapiens
1160	3380	Neuromedin B Receptor	P28336	828	CGRKSYQERGTSYLLSSA	Homo sapiens
1161	3404	Neuropeptide Y Receptor Type 2	P49146	1057	RGELVPDPELIDST	Homo sapiens
1162	3404	Neuropeptide Y Receptor Type 2	P49146	1058	CIVYHLESKISKRISF	Homo sapiens
1163	3404	Neuropeptide Y Receptor Type 2	P49146	1059	REYSLEIIPDFEIVAC	Homo sapiens
1164	3404	Neuropeptide Y Receptor Type 2	P49146	1060	NDHYHGRRRQRTKMLVC	Homo sapiens
1165	3404	Neuropeptide Y Receptor Type 2	P49146	1061	CEQRDLAIHSEVSVTFKAKK	Homo sapiens
1166	3404	Neuropeptide Y Receptor Type 2	P49146	2297	MGPIGAEADENQITVEEMKVE	Homo sapiens
1167	3404	Neuropeptide Y Receptor Type 2	P49146	2298	SEVSVTFKAKKNLEVRKNSG	Homo sapiens
1168	3405	Neuropeptide Y Receptor Type 4	P50391	1068	CVTVRQKEKANVTNLL	Homo sapiens
1169	3405	Neuropeptide Y Receptor Type 4	P50391	1069	KNHSALEFLADKVC	Homo sapiens
1170	3405	Neuropeptide Y Receptor Type 4	P50391	1070	CYARIYRRLQRQGRVFHKG	Homo sapiens

1171	3405	Type 4 Neuropeptide Y Receptor	P50391	1071	CQQSAPLEESEHLPLST	Homo sapiens
1172	3405	Type 4 Neuropeptide Y Receptor	P50391	2275	SEHCQDSVDVMVFVTS	Homo sapiens
1173	3406	Type 4 Neuropeptide Y Receptor	Q15761	1072	MKKRNQKTTVNFLGN	Homo sapiens
1174	3406	Type 5 Neuropeptide Y Receptor	Q15761	1073	CGLSNKENRLEENEMI	Homo sapiens
1175	3406	Type 5 Neuropeptide Y Receptor	Q15761	1074	NLTLPSSKSGPQVKL	Homo sapiens
1176	3406	Type 5 Neuropeptide Y Receptor	Q15761	1075	SFIKKHRRRYSKKTAC	Homo sapiens
1177	3406	Type 5 Neuropeptide Y Receptor	Q15761	1076	PERPSQENHSRILPEN	Homo sapiens
1178	3406	Type 5 Neuropeptide Y Receptor	Q15761	1077	CFEIKPEENSVDVHELRV	Homo sapiens
1179	3408	Type 5 Neurotensin Receptor Type 1	P30989	935	RVLAAPSSSELDVNTDIYS	Homo sapiens
1180	3408	Type 5 Neurotensin Receptor Type 1	P30989	936	CHPFFKAKTLMRSRTKK	Homo sapiens
1181	3408	Type 5 Neurotensin Receptor Type 1	P30989	937	GEQNRISADGGQHAGGLVC	Homo sapiens
1182	3408	Type 5 Neurotensin Receptor Type 1	P30989	938	RQAAEQGGQVCTVGGEHS	Homo sapiens
1183	3408	Type 5 Neurotensin Receptor Type 1	P30989	939	CPVWRRRRKRKRPAFSRKADS	Homo sapiens
1184	3452	Type 5 Oplate Receptor-Like 1 (OPRL1)	P41146	940	CHPIRALDVRTSSKAQA	Homo sapiens
1185	3452	Type 5 Oplate Receptor-Like 1 (OPRL1)	P41146	941	PVAIMGSAQVEDEEIEC	Homo sapiens
1186	3452	Type 5 Oplate Receptor-Like 1 (OPRL1)	P41146	942	GVQPSSETAVAILRFC	Homo sapiens
1187	3452	Type 5 Oplate Receptor-Like 1 (OPRL1)	P41146	943	CASALRRDVQVSDRVRSIAK	Homo sapiens
1188	3513	Type 5 Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2123	TPEPRPRTQPMASPRLGTFC	Homo sapiens
1189	3513	Type 5 Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2124	TAVASLLKGRQGIYTE	Homo sapiens

1190	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2125	EMQTIDINGGSLKPVRTAAK	Homo sapiens
1191	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2126	CSLGFQSPRKEIQWES	Homo sapiens
1192	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2127	SEGSDASTIEHTASESC	Homo sapiens
1193	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2128	NPASGKVSQVGGQTSD	Homo sapiens
1194	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1486	CKKLHIPLKAQNDLDSRIK	Homo sapiens
1195	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1500	KIVKPLWTSFIQSVYSKLL	Homo sapiens
1196	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1502	TAITKKIFKSHLKSRRNSTS	Homo sapiens
1197	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1503	VKKSSRNIFSIVFFVC	Homo sapiens
1198	3582	Oxytocin Receptor	CAA46097.1	244	AEGNRTAGPPRRNEALARVE	Homo sapiens
1199	3582	Oxytocin Receptor	CAA46097.1	245	RLAVLATWLGCLVASAP	Homo sapiens
1200	3582	Oxytocin Receptor	CAA46097.1	246	PEGAAAGDGGRRVALAR	Homo sapiens
1201	3582	Oxytocin Receptor	CAA46097.1	247	YLGRRIGETSAKSNSS	Homo sapiens
1202	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	854	MQRIGDVLGSEDFRR	Homo sapiens
1203	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	855	ARGGRVTCCHDTSAPEL	Homo sapiens
1204	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	856	KPAYGTSGGLPRAKRK	Homo sapiens
1205	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	857	TGSPATPARRRLGLRRSD	Homo sapiens
1206	3595	Purinergic Receptor P2Y1	CAA07339.1	386	RYSGVVYPLKSLGRLKKKN	Homo sapiens
1207	3595	Purinergic Receptor P2Y1	CAA07339.1	387	SGTGVKKNKTTTCYD	Homo sapiens
1208	3595	Purinergic Receptor P2Y1	CAA07339.1	388	RAUYKDLDNSPLRRKS	Homo sapiens
1209	3595	Purinergic Receptor P2Y1	CAA07339.1	389	DTFRRRLSRATRKASRRSE	Homo sapiens
1210	3596	Purinergic Receptor P2Y5	P43657	850	FVQSTHSQGNNAEAC	Homo sapiens
1211	3596	Purinergic Receptor P2Y5	P43657	851	MVLKTLTKPVTLSRSKI	Homo sapiens
1212	3596	Purinergic Receptor P2Y5	P43657	852	TIGNSIKMKNNWSVRRSD	Homo sapiens
1213	3596	Purinergic Receptor P2Y5	P43657	853	SEVHGAENFIQHNLQTLK	Homo sapiens
1214	3597	Purinergic Receptor P2Y6	Q15077	874	CTSRRLTRTAVYTLN	Homo sapiens
1215	3597	Purinergic Receptor P2Y6	Q15077	875	AQERRGKAARMAMVV	Homo sapiens

1216	3597	Purinergic Receptor P2Y6	Q15077	876	TKTAYLAVRSTPGVPC	Homo sapiens
1217	3597	Purinergic Receptor P2Y6	Q15077	877	KKFRRRPHLLQKLTAK	Homo sapiens
1218	3597	Purinergic Receptor P2Y6	Q15077	2726	CHPLAPWHKRGRRRAAW	Homo sapiens
1219	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	870	CFRMKMRSETAIFTN	Homo sapiens
1220	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	871	RTLKPATLSQIGTNKK	Homo sapiens
1221	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	872	ESFQKSFYNAHIRMES	Homo sapiens
1222	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	873	KTETPLTKPSLPAIQEE	Homo sapiens
1223	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	1895	SSLRPRRLGNATANNTCIVD	Homo sapiens
1224	3638	Parathyroid Hormone Receptor 2 (PTH2)	AAC50157.1	248	KAKVQCELNITAQLQEGE	Homo sapiens
1225	3638	Parathyroid Hormone Receptor 2 (PTH2)	AAC50157.1	249	ESLIMQDDPQNSIEATSVDK	Homo sapiens
1226	3638	Parathyroid Hormone Receptor 2 (PTH2)	AAC50157.1	250	NSEQDCLPHSFHEETKE	Homo sapiens
1227	3638	Parathyroid Hormone Receptor 2 (PTH2)	AAC50157.1	251	EETKEDSGRQGDDILMEKPS	Homo sapiens
1228	3640	Parathyroid Hormone Receptor 1 (PTH1)	Q03431	761	CEKRLKEVLQRPASIMESDK	Homo sapiens
1229	3640	Parathyroid Hormone Receptor 1 (PTH1)	Q03431	762	ESEEDKEAPTGSRYRGRPC	Homo sapiens
1230	3640	Parathyroid Hormone Receptor 1 (PTH1)	Q03431	763	LYSGATILDEAERLIEELR	Homo sapiens
1231	3640	Parathyroid Hormone Receptor 1 (PTH1)	Q03431	765	KDDGFLNGSCSGLDEEASG	Homo sapiens
1232	3732	PACAP Receptor Type 1	P41586	944	CLEKIGRANELMGFNDSS	Homo sapiens
1233	3732	PACAP Receptor Type 1	P41586	945	CPELFRIFNPQVWETET	Homo sapiens
1234	3732	PACAP Receptor Type 1	P41586	946	DSNSLDLSDMGVWSRNC	Homo sapiens
1235	3732	PACAP Receptor Type 1	P41586	948	IKRKWRSWKVNRIFYAVD	Homo sapiens
1236	3732	PACAP Receptor Type 1	P41586	2292	ESDFGDSNSLDLSDMGVWSR	Homo sapiens
1237	3844	Apelin Receptor	AAA18954.1	62	RTTGDLENTTKVQC	Homo sapiens
1238	3844	Apelin Receptor	AAA18954.1	63	RSSREKRRSADIFIAS	Homo sapiens
1239	3844	Apelin Receptor	AAA18954.1	64	QTIAGHFRRKERIEGLKRRRR	Homo sapiens
1240	3844	Apelin Receptor	AAA18954.1	65	GPNMGKGGEQMHEKSIPIYSQ	Homo sapiens

1241	3845	Chemokine-Like Receptor 1 (CMKLR1)	LR39	447	RMEDEDYNTSISYGDEYPD	Homo sapiens
1242	3845	Chemokine-Like Receptor 1 (CMKLR1)	Q99788	448	DSIVVLEDLSPEARVTR	Homo sapiens
1243	3845	Chemokine-Like Receptor 1 (CMKLR1)	Q99788	449	LTIVCKLHRNRLAKTKPKF	Homo sapiens
1244	3845	Chemokine-Like Receptor 1 (CMKLR1)	Q99788	450	RSFTKMSSMINERTSMNERE	Homo sapiens
1245	3846	Spingolipid Receptor Edg1	AAA52336.1	1010	TRSRRLTFKRNISKASRSSE	Homo sapiens
1246	3846	Spingolipid Receptor Edg1	AAA52336.1	1011	CPSGDSAGKFKRPIAG	Homo sapiens
1247	3846	Spingolipid Receptor Edg1	AAA52336.1	1012	CPSGDSAGKFKRPIAGME	Homo sapiens
1248	3846	Spingolipid Receptor Edg1	AAA52336.1	1013	RSKSDNSSHPQKDEGD	Homo sapiens
1249	3847	Spingolipid Receptor Edg3	Q99500	1028	ERHLTMIKMRPYDANK	Homo sapiens
1250	3847	Spingolipid Receptor Edg3	Q99500	1029	LVKSSRKVANHNSE	Homo sapiens
1251	3847	Spingolipid Receptor Edg3	Q99500	1030	SPKVKEDELPHIDPSSC	Homo sapiens
1252	3847	Spingolipid Receptor Edg3	Q99500	1031	CLVRGRGARASPIQPALD	Homo sapiens
1253	3847	Spingolipid Receptor Edg3	Q99500	1752	REHYQYVVGKLAGRLKEASE	Homo sapiens
1254	3848	C-C Chemokine Receptor 9	P51686	958	RAHTWREKRLLYSKMVC	Homo sapiens
1255	3848	C-C Chemokine Receptor 9	P51686	959	KEESGIAICTMVVPSDEST	Homo sapiens
1256	3848	C-C Chemokine Receptor 9	P51686	960	QAKSKSHKALKVTIT	Homo sapiens
1257	3848	C-C Chemokine Receptor 9	P51686	961	GERFRDLVKTLKNLGC	Homo sapiens
1258	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	74	ENYSYDLDVYSLESDEEK	Homo sapiens
1259	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	75	RDTVEFNHHTLCYNINFQKHD	Homo sapiens
1260	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	76	SKKFQARFRSSVAEILK	Homo sapiens
1261	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	77	GTVSEQLRNSETKNLC	Homo sapiens
1262	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1087	HPLRRRISRLSAYAV	Homo sapiens
1263	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1088	CEEFWGSQERQRQLYA	Homo sapiens
1264	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1089	SVRVSVKLRNRRVPPGC	Homo sapiens
1265	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1090	CVTGSQADWDRARRRR	Homo sapiens
1266	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1091	DSFREELRKLVAWPRKIA	Homo sapiens

1267	3851	Receptor 10 (GPR10) G Protein-Coupled Receptor GPR12	AAA91630.1	78	GCI PSSLAGRARPSD	Homo sapiens
1268	3851	G Protein-Coupled Receptor GPR12	AAA91630.1	79	ENISAAVSSRVPAVEPEPE	Homo sapiens
1269	3851	G Protein-Coupled Receptor GPR12	AAA91630.1	307	STCSVVRLTKNNA	Homo sapiens
1270	3851	G Protein-Coupled Receptor GPR12	AAA91630.1	308	QSEATKLVITGLIVAS	Homo sapiens
1271	3852	CX3C Chemokine Fractalkine Receptor 1	AAA91783.1	84	KQKENECLGDYPEVLQE	Homo sapiens
1272	3852	CX3C Chemokine Fractalkine Receptor 1	AAA91783.1	85	SMNNRTVGHGVTISL	Homo sapiens
1273	3852	CX3C Chemokine Fractalkine Receptor 1	AAA91783.1	86	ETLKLYDFFPSCDMRKDLR	Homo sapiens
1274	3852	CX3C Chemokine Fractalkine Receptor 1	AAA91783.1	87	GRSVHVDFFSSSQSRHGS	Homo sapiens
1275	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1511	CLKNYDFGSSSTETSDSLTK	Homo sapiens
1276	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1512	KALSTFIHAEDFARRRKRS	Homo sapiens
1277	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1612	ATSPNSDIRETHSHVP	Homo sapiens
1278	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1613	LMGALHFKPGSRRUD	Homo sapiens
1279	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1615	GLPTLLSRELTUDDKPYC	Homo sapiens
1280	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	93	DRYMAIVQPKYAKELKNITC	Homo sapiens
1281	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	94	KDPDKDSTPATCLKISD	Homo sapiens
1282	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	95	GRTSKLKPVK/KEKSIR	Homo sapiens
1283	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	96	RNYLRLRLRKSFSGSLR	Homo sapiens
1284	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	97	KVSREKAKKMIASWIFD	Homo sapiens
1285	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	98	DGRTVVRTMNVPRTKVK	Homo sapiens

1286	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	99	RRGMKETFCMISSMKC	Homo sapiens
1287	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	100	KTITKDSINYDSFDREAKEKK	Homo sapiens
1288	3856	G Protein-Coupled Receptor GPR2/CCRI10	P46092	1152	ALLFSQDGGQREGQRRRC	Homo sapiens
1289	3856	G Protein-Coupled Receptor GPR2/CCRI10	P46092	1153	SGDEEDAYSAEPLPELC	Homo sapiens
1290	3856	G Protein-Coupled Receptor GPR2/CCRI10	P46092	1154	ALLDTADLLAARERSC	Homo sapiens
1291	3856	G Protein-Coupled Receptor GPR2/CCRI10	P46092	1155	RRLRGSSPSGPQPRRGC	Homo sapiens
1292	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	101	KSGRRHHLSAGPHALTQ	Homo sapiens
1293	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	102	RTNASGLEVPLHLFARLDE	Homo sapiens
1294	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	103	SRPGLLHQGRQRRVRAMQ	Homo sapiens
1295	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	104	GQHGEREPSSGDVWSMHRSS	Homo sapiens
1296	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	105	SERQARFSSQSGETGEVQAC	Homo sapiens
1297	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	106	DPYTVRSKGPLNGC	Homo sapiens
1298	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	107	NSTLDGNQSSHFPCLL	Homo sapiens
1299	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	108	CASQTANDPYTVRSK	Homo sapiens
1300	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	109	EINMQSESNTVRDDIDD	Homo sapiens
1301	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	111	RRAVKRHRERERQKRVRM	Homo sapiens
1302	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	112	TRQKFQKVLKSKMKKR	Homo sapiens
1303	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	113	DPKRNKKITFEDSEIREKR	Homo sapiens
1304	3860	G Protein-Coupled Receptor SLG/MCHI	AAH01736.1	1532	CAPGQQGRRWRLPQPAWVEG	Homo sapiens
1305	3860	G Protein-Coupled	AAH01736.1	1533	EASLLPTGPNASNTSDGPDN	Homo sapiens

1306	3860	Receptor SLC/MCH1 G Protein-Coupled	AAH01736.1	1539	KGVGRAVGLGGGSCQATE	Homo sapiens
1307	3860	Receptor SLC/MCH1 G Protein-Coupled	AAH01736.1	1565	RMTSSVAPASQSRIRLTKR	Homo sapiens
1308	3860	Receptor SLC/MCH1 G Protein-Coupled	AAH01736.1	1567	RAVSNAGTAEERTESKG	Homo sapiens
1309	3861	Receptor SLC/MCH1 G Protein-Coupled	O00155	376	RGLQLPGGQDSQCGEEP	Homo sapiens
1310	3861	Receptor GPR25 G Protein-Coupled	O00155	377	CRISRLRRPPHVGRARRNS	Homo sapiens
1311	3861	Receptor GPR25 G Protein-Coupled	O00155	378	RTGRLARRISSASSLRDD	Homo sapiens
1312	3861	Receptor GPR25 G Protein-Coupled	O00155	483	DYSGLDGLEELELCPAGD	Homo sapiens
1313	3862	Receptor GPR25 G Protein-Coupled	AAB60402.1	118	TVYCILLGDAHSPPLYT	Homo sapiens
1314	3862	Receptor GPR3 G Protein-Coupled	AAB60402.1	119	EGPTGPAAPLPSPKAWD	Homo sapiens
1315	3862	Receptor GPR3 G Protein-Coupled	AAB60402.1	120	HFAAVFCIGSAEMSL	Homo sapiens
1316	3862	Receptor GPR3 G Protein-Coupled	AAB60402.1	121	GLITCGVVVPLSKNH	Homo sapiens
1317	3863	Receptor GPR3 G Protein-Coupled	O00270	1157	REPEKQPKLQRAQALVTLV	Homo sapiens
1318	3863	Receptor GPR31 G Protein-Coupled	O00270	1158	CHSFYSRADGFSFIWQEA	Homo sapiens
1319	3863	Receptor GPR31 G Protein-Coupled	O00270	1159	QNLGSCRALCAVAHTSDVTG	Homo sapiens
1320	3863	Receptor GPR31 G Protein-Coupled	O00270	1160	SPTRSSVRRVFHTLRGKGQ	Homo sapiens
1321	3864	Receptor GPR31 G Protein-Coupled	AAA98457.1	143	DELFRDRYNHTCFEKFPM	Homo sapiens
1322	3864	Receptor GPR4 G Protein-Coupled	AAA98457.1	144	LRVRGVSSTERQEKAKIKR	Homo sapiens
1323	3864	Receptor GPR4 G Protein-Coupled	AAA98457.1	145	RSDVAKALHNLLRFLASDK	Homo sapiens
1324	3864	Receptor GPR4 G Protein-Coupled	AAA98457.1	146	NASLTLETPLTSKRINSTAK	Homo sapiens

1325	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	166	FQYLVPSQTVSLLTVG	Homo sapiens
1326	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	167	CLAERAAACSVVRPLARSH	Homo sapiens
1327	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	168	HLVVRICQVVRHAH	Homo sapiens
1328	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	169	EIQRALWLLCGCFQSK	Homo sapiens
1329	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	171	ATAESRRVAGRTYSAAR	Homo sapiens
1330	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	172	RLDDEGGRRQCVLVFPQPE	Homo sapiens
1331	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	173	RUHAMRLDSHAKALERAKKR	Homo sapiens
1332	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	174	DASFRRLRLQLITC	Homo sapiens
1333	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	175	NVSGDNGTGHNAIFSEP	Homo sapiens
1334	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	176	RSRHMPWRTYRGAKVAS	Homo sapiens
1335	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	177	VLRSGAKALGKARRK	Homo sapiens
1336	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	178	LDDNFRKNFRSLRC	Homo sapiens
1337	3869	G Protein-Coupled Receptor HM74	BAA01721.1	179	QDHFLEIDKKNCCVFRDD	Homo sapiens
1338	3869	G Protein-Coupled Receptor HM74	BAA01721.1	180	ARIWSLRQRQMDRHAQIKR	Homo sapiens
1339	3869	G Protein-Coupled Receptor HM74	BAA01721.1	181	CLQRKMITGEPDNNRSTVE	Homo sapiens
1340	3869	G Protein-Coupled Receptor HM74	BAA01721.1	182	DPNKTGGAPEALMANSGE	Homo sapiens
1341	3869	G Protein-Coupled Receptor HM74	BAA01721.1	183	SNNHSGKHCHQEPASLEKQ	Homo sapiens
1342	3869	G Protein-Coupled Receptor HM74	BAA01721.1	1453	RQRQMDRHAQIKRAITFIMV	Homo sapiens
1343	3869	G Protein-Coupled Receptor HM74	BAA01721.1	1454	SPSYLGPTSNHSHKKG	Homo sapiens
1344	3870	G Protein-Coupled	Q15743	1192	AVRRSHGTQKSRKDQI	Homo sapiens

1345	3870	Receptor OGR1	Q15743	1193	LMHEEVIEDENQHRVC	Homo sapiens
1346	3870	G Protein-Coupled Receptor OGR1	Q15743	1194	CFVSETHRDLARLRG	Homo sapiens
1347	3870	G Protein-Coupled Receptor OGR1	Q15743	1195	CSRTGRAREAYPLGAPEASG	Homo sapiens
1348	3921	Prostaglandin Receptor	P43119	1188	CRMVRRQKRHQGSLGPRPRT	Homo sapiens
1349	3921	Prostaglandin Receptor	P43119	1189	CFTQAVAPDSSEMMD	Homo sapiens
1350	3921	Prostaglandin Receptor	P43119	1190	ASGRRDPRAPAPVGKEGSC	Homo sapiens
1351	3921	Prostaglandin Receptor	P43119	1191	SAWGEQVVEPLPTQQ	Homo sapiens
1352	3923	Prostaglandin D2 Receptor	Q13258	458	KSPFYRCQNTSVEKGNNAV	Homo sapiens
1353	3923	Prostaglandin D2 Receptor	Q13258	459	RNLYAMHRRRLQRHPRSC	Homo sapiens
1354	3923	Prostaglandin D2 Receptor	Q13258	503	CAEPRADGREGASPPLEEL	Homo sapiens
1355	3923	Prostaglandin D2 Receptor	Q13258	504	KDVKEKNRTSEEAEDLRLR	Homo sapiens
1356	3924	Prostaglandin E Receptor EP1	P34995	962	AQAAAGRLRRRSATTF	Homo sapiens
1357	3924	Prostaglandin E Receptor EP1	P34995	963	CVGVTRPLLHAARVSARAR	Homo sapiens
1358	3924	Prostaglandin E Receptor EP1	P34995	964	CNTLSGLALHRARWRR	Homo sapiens
1359	3924	Prostaglandin E Receptor EP1	P34995	965	ASGPDSRRRWGAHGPR	Homo sapiens
1360	3924	Prostaglandin E Receptor EP1	P34995	966	SGSARRARAHDEVEMVGQ	Homo sapiens
1361	3925	Prostaglandin E Receptor EP2	AAD44177.1	967	IALALLARRWRGDVGC	Homo sapiens
1362	3925	Prostaglandin E Receptor EP2	AAD44177.1	968	CETRQWLPPGESPAISSV	Homo sapiens
1363	3925	Prostaglandin E Receptor EP2	AAD44177.1	969	GPSLGSGRGPGARRRGE	Homo sapiens
1364	3925	Prostaglandin E Receptor EP2	AAD44177.1	971	NETSSRKEKWDLQALR	Homo sapiens
1365	3926	Prostaglandin E2 Receptor EP3	CAB52459.1	972	ERSAEARGNLTRPPGSGEDC	Homo sapiens
1366	3926	Prostaglandin E2 Receptor EP3	CAB52459.1	973	SRSYRRRESKRKKSFLC	Homo sapiens
1367	3926	Prostaglandin E2 Receptor	CAB52459.1	974	CRAKATASQSSAQWGR	Homo sapiens

1368	3926	EP3	Prostaglandin E2 Receptor	CAB52459.1	975	KFCQVANAVSSCSNDGQ	Homo sapiens
1369	3927	EP3	Prostaglandin E Receptor	P35408	382	RLSDFRRRRSFRRIAGAE	Homo sapiens
1370	3927	EP4	Prostaglandin E Receptor	P35408	383	EREVSKNPDLQAIRIAS	Homo sapiens
1371	3927	EP4	Prostaglandin E Receptor	P35408	384	DSQRTSSAMSGHSRFSFRE	Homo sapiens
1372	3927	EP4	Prostaglandin E Receptor	P35408	385	RTLRISETSDSSGGQDSE	Homo sapiens
1373	3928	Receptor	Prostaglandin F2-alpha	P43088	1046	ILMKAYQRRFRQKSKAS	Homo sapiens
1374	3928	Receptor	Prostaglandin F2-alpha	P43088	1047	ASDKEWIRFDQSNVLC	Homo sapiens
1375	3928	Receptor	Prostaglandin F2-alpha	P43088	1048	TKPIFHSTKITSKHVK	Homo sapiens
1376	3928	Receptor	Prostaglandin F2-alpha	P43088	1049	CFYNTEDIKDWDERFY	Homo sapiens
1377	3928	Receptor	Prostaglandin F2-alpha	P43088	1050	RVKFKSQQHRQGRSHLE	Homo sapiens
1378	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	252	QGTRPSSKGRSLIGKVDGTS	Homo sapiens
1379	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	253	QRYWVIVNPMGHSRKKAN	Homo sapiens
1380	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	255	SHDFRDHAKNALLCRSVR	Homo sapiens
1381	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	256	VSLTSKKHSRKSSSYS	Homo sapiens
1382	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	257	ENDTNINLAKPTLPIKTR	Homo sapiens
1383	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	258	CPEESASHLVKNATMG	Homo sapiens
1384	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	260	QPDITTCDDVHNITCESSP	Homo sapiens
1385	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	261	MSKTRNHSTAVLTJK	Homo sapiens
1386	4090	G Protein-Coupled Receptor GPR17	G Protein-Coupled Receptor GPR17	CAB08108.1	88	RDHKSGETPANVFLMH	Homo sapiens

1387	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	90	RSLRQGLRVEKRLTKAVR	Homo sapiens
1388	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	91	RSHGASCATQRILALANR	Homo sapiens
1389	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	92	FEGKTNESSLSAKSE	Homo sapiens
1390	4254	Rhodopsin	P08100	1051	RNCMLTICCCGKNPLGD	Homo sapiens
1391	4254	Rhodopsin	P08100	1052	CGIDYYTLKPEVNNEFVI	Homo sapiens
1392	4254	Rhodopsin	P08100	1053	CWVPYASVAFVIFTHQGSN	Homo sapiens
1393	4254	Rhodopsin	P08100	1055	VLGGFTSLYLSLHGY	Homo sapiens
1394	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1042	ATSSLLRRWPYGS DGC	Homo sapiens
1395	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1043	CTLDYSKGD RNFISFL	Homo sapiens
1396	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1044	MEQKLKSGHLQVNIT	Homo sapiens
1397	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1045	MVCRGIWQCLSPQKRE	Homo sapiens
1398	4321	Secretin Receptor	P47872	950	CLQELSRGTGDLGTEQ	Homo sapiens
1399	4321	Secretin Receptor	P47872	951	CPRFLRMILSRNGSLFRN	Homo sapiens
1400	4321	Secretin Receptor	P47872	952	CGVNVNDSSNEKRHSY	Homo sapiens
1401	4321	Secretin Receptor	P47872	954	KDAVLFSDDVTYCDAAH	Homo sapiens
1402	4321	Secretin Receptor	P47872	956	MIRKLRTQETRGRNEVSH	Homo sapiens
1403	4480	Somatostatin Receptor Type 1	P30872	994	EEPGRNASQNGTLSEG	Homo sapiens
1404	4480	Somatostatin Receptor Type 1	P30872	996	CLSWMDNAAEEPVDY	Homo sapiens
1405	4480	Somatostatin Receptor Type 1	P30872	997	EDFQPENLES GGVFRNGTC	Homo sapiens
1406	4480	Somatostatin Receptor Type 1	P30872	2616	LSVDVAVNMFTSIYC	Homo sapiens
1407	4480	Somatostatin Receptor Type 1	P30872	2618	RAYSVEDFQPENLES	Homo sapiens
1408	4481	Somatostatin Receptor Type 2	P30874	998	RSNQWGRSSCTINWPGE	Homo sapiens
1409	4481	Somatostatin Receptor Type 2	P30874	999	KVKSSGIRVGSSKRKKE	Homo sapiens
1410	4481	Somatostatin Receptor Type	P30874	1000	CLVKVSGTDDGERSDS	Homo sapiens

1411	4481	2	Somatostatin Receptor Type	P30874	1001	KQDKSRUNETTETQRT	Homo sapiens
1412	4481	2	Somatostatin Receptor Type	P30874	2276	DMADEPLNGSHTWLSIP	Homo sapiens
1413	4482	2	Somatostatin Receptor Type	P32745	1002	KVRSAGRRVWAPSCQR	Homo sapiens
1414	4482	3	Somatostatin Receptor Type	P32745	2622	REGGKGKEMNGRVSQI	Homo sapiens
1415	4482	3	Somatostatin Receptor Type	P32745	2624	TTSEPENASSAWPPD	Homo sapiens
1416	4482	3	Somatostatin Receptor Type	P32745	2626	QPGTSGQERPPSRVA	Homo sapiens
1417	4483	4	Somatostatin Receptor Type	P31391	1007	IFADTRPARGGQAVAC	Homo sapiens
1418	4483	4	Somatostatin Receptor Type	P31391	1008	CLLEGAGGAEEEPDLY	Homo sapiens
1419	4483	4	Somatostatin Receptor Type	P31391	2627	KMRAVALRAGWQRR	Homo sapiens
1420	4483	4	Somatostatin Receptor Type	P31391	2631	CRAVLSVDGLNMFTSV	Homo sapiens
1421	4483	4	Somatostatin Receptor Type	P31391	2633	CLVGLVGNALVIFVIL	Homo sapiens
1422	4484	5	Somatostatin Receptor Type	NP_001044.1	2637	SLPLLVFADVQEGGTC	Homo sapiens
1423	4484	5	Somatostatin Receptor Type	NP_001044.1	2638	CLRKGSGAKDADATEP	Homo sapiens
1424	4484	5	Somatostatin Receptor Type	NP_001044.1	2639	RIRQQQEATPPAHRAAA	Homo sapiens
1425	4484	5	Somatostatin Receptor Type	NP_001044.1	2643	RVAKLASAAAWVLSLC	Homo sapiens
1426	4552		Tachykinin Receptor 1	AAA36641.1	1339	CMIEWPEHPNKIYEKV	Homo sapiens
1427	4552		Tachykinin Receptor 1	AAA36641.1	1340	CPFISAGDVEGLEMKSTRYL	Homo sapiens
1428	4552		Tachykinin Receptor 1	AAA36641.1	1341	KVSRLETTISTVWGAHEE	Homo sapiens
1429	4552		Tachykinin Receptor 1	AAA36641.1	1342	EPEDGPKATPSSDLTSNC	Homo sapiens
1430	4687		Thrombin Receptor	P25116	1202	EDEEKNESGLTEYRLV	Homo sapiens
1431	4687		Thrombin Receptor	P25116	2582	AVANIRSKKSRALFLSAAVFC	Homo sapiens
1432	4687		Thrombin Receptor	P25116	2583	SINKSSPLQKQLPAFISE	Homo sapiens

1433	4687	Thrombin Receptor	P25116	2621	DPRSFLLRNPNNDKYEFW	Homo sapiens
1434	4734	Thyrotropin Releasing Hormone Receptor	P34981	1196	PSDPKENSKTWKNDST	Homo sapiens
1435	4734	Thyrotropin Releasing Hormone Receptor	P34981	1197	CFNSTVSSRKQVTKMLA	Homo sapiens
1436	4734	Thyrotropin Releasing Hormone Receptor	P34981	1198	RAAFRKLCKCKQKPT	Homo sapiens
1437	4734	Thyrotropin Releasing Hormone Receptor	P34981	1199	KPANYSVAlNYSVIKE	Homo sapiens
1438	4734	Thyrotropin Releasing Hormone Receptor	P34981	1200	KESDHFSTELDDIIVTD	Homo sapiens
1439	4944	Angiotensin II Type 1 Receptor	NP_000676.1	1771	EIQKNKPRNDIDFKII	Homo sapiens
1440	4944	Angiotensin II Type 1 Receptor	NP_000676.1	1772	SYRPSDNVSSSTKKPAPC	Homo sapiens
1441	4944	Angiotensin II Type 1 Receptor	NP_000676.1	1773	LNSSTEDGIKRIQDDC	Homo sapiens
1442	4946	Angiotensin II Type 2 Receptor	P50052	1321	CSQKPSDKHLDAPIL	Homo sapiens
1443	4946	Angiotensin II Type 2 Receptor	P50052	1322	DRYGSVVPFLSQRRN	Homo sapiens
1444	4946	Angiotensin II Type 2 Receptor	P50052	1323	RKHLKNTSYGKNRITRD	Homo sapiens
1445	4946	Angiotensin II Type 2 Receptor	P50052	1324	RVPIITWLQGKRESMSC	Homo sapiens
1446	5072	Pyrimidinergic Receptor P2Y4	P51582	1142	CHDTRPEEFDHYVHFSSA	Homo sapiens
1447	5072	Pyrimidinergic Receptor P2Y4	P51582	1145	YLLTGDKYRRQLRQLC	Homo sapiens
1448	5072	Pyrimidinergic Receptor P2Y4	P51582	2696	HPURALRWGRPRLAG	Homo sapiens
1449	5072	Pyrimidinergic Receptor P2Y4	P51582	2697	HIIRTIYILARLLEADC	Homo sapiens
1450	5117	Vasopressin V1A Receptor	AAA62271.1	262	REAEALGEGNGPPRDVRNEE	Homo sapiens
1451	5117	Vasopressin V1A Receptor	AAA62271.1	263	NVRGKTASRQSKGAEQ	Homo sapiens
1452	5117	Vasopressin V1A Receptor	AAA62271.1	264	QNMKEKFNKEDTDSMSRRQ	Homo sapiens
1453	5117	Vasopressin V1A Receptor	AAA62271.1	265	RQTFYSNNIRSPNTSGMWKD	Homo sapiens
1454	5118	Vasopressin V1B Receptor	AAA65687.1	266	NATIPWLGRDEELAKVE	Homo sapiens
1455	5118	Vasopressin V1B Receptor	AAA65687.1	267	TRGLPSRVSSINTISRAKIR	Homo sapiens

1456	5118	Vasopressin V1B Receptor	AA65687.1	268	QPRMRRRLSDGSLSRH	Homo sapiens
1457	5118	Vasopressin V1B Receptor	AA65687.1	269	ESPRDLEADGEGTAET	Homo sapiens
1458	5119	Vasopressin V2 Receptor	CAA77746.1	270	SNSSQERPLDTRDPLARAE	Homo sapiens
1459	5119	Vasopressin V2 Receptor	CAA77746.1	271	RHSGGAHWNRPLVAVAFS	Homo sapiens
1460	5119	Vasopressin V2 Receptor	CAA77746.1	272	CQVLIFREIHASLVPGPSE	Homo sapiens
1461	5119	Vasopressin V2 Receptor	CAA77746.1	273	RGRTPPSLGPQDESC	Homo sapiens
1462	5133	Peropsin	O14718	1147	KNEDGSVFSQTEHNIV	Homo sapiens
1463	5133	Peropsin	O14718	1148	IKYKELRPTNIIIN	Homo sapiens
1464	5133	Peropsin	O14718	1149	RKNDRSFVSMTIVIA	Homo sapiens
1465	5133	Peropsin	O14718	1150	CTESLNRDWSDQIDVTK	Homo sapiens
1466	5133	Peropsin	O14718	1151	VANKKFRRLAMLFKC	Homo sapiens
1467	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	987	CGPAGRTSSRSQSLRSTDAR	Homo sapiens
1468	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	988	EENRDKWEEAQLAGPN	Homo sapiens
1469	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	989	CRWDRQEEGNGDSGG	Homo sapiens
1470	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	990	KRDKAPKSSFVGDDI	Homo sapiens
1471	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	991	RKLQHAAEKDKEVLGP	Homo sapiens
1472	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	981	CLRPSPEEAVAQAESEVGR	Homo sapiens
1473	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	982	GSSNDLFTTEMYGEE	Homo sapiens
1474	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	983	MARDGISDKSKKQRAGSERC	Homo sapiens
1475	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	984	EDAPRARPEGTPRRAAK	Homo sapiens
1476	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	985	RSRTMPRTVPGSTMKMGSL	Homo sapiens
1477	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	986	KREKRWSVSSGGAAERSVC	Homo sapiens
1478	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242	976	RRVFTNFPGLQKKGE	Homo sapiens
1479	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242	977	CNLTREAKRPPKEEFG	Homo sapiens
1480	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242	978	KLKHRAGQMSEPHSGLTKC	Homo sapiens

1481	5521	Inhibitor 3			979	CTDDNLRGADMDIVHPQER	Homo sapiens
1482	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242		980	SRSETGSTISMSSILERR	Homo sapiens
1483	6031	SIV/HIV Receptor BONZO	O00574		1101	NDSSQEEHQDFLQFSK	Homo sapiens
1484	6031	SIV/HIV Receptor BONZO	O00574		1102	KATKAYNQQAARMTWG	Homo sapiens
1485	6031	SIV/HIV Receptor BONZO	O00574		1103	KTLHAGGFQKHSRLK	Homo sapiens
1486	6031	SIV/HIV Receptor BONZO	O00574		1104	SLKFRKNFWKLVKDIGC	Homo sapiens
1487	6031	SIV/HIV Receptor BONZO	O00574		1105	KSEEDNSKTFSAHNV	Homo sapiens
1488	6204	Lysophosphatidic Acid Receptor Edg4	AAC27728.1		66	ERHRSVMAVQLHSRLPRGR	Homo sapiens
1489	6204	Lysophosphatidic Acid Receptor Edg4	AAC27728.1		67	RRRVQIRMAEHVSHPRYRE	Homo sapiens
1490	6204	Lysophosphatidic Acid Receptor Edg4	AAC27728.1		68	NAAVYSCRDAEMRRITRR	Homo sapiens
1491	6204	Lysophosphatidic Acid Receptor Edg4	AAC27728.1		69	RQSTRESVHYTSSAQGGAST	Homo sapiens
1492	6213	C-C Chemokine Receptor 5	AAC50598.1		38	YSQYQFWKNFQTLK	Homo sapiens
1493	6213	C-C Chemokine Receptor 5	AAC50598.1		39	QQAEPERASSVYTRSTGEQE	Homo sapiens
1494	6213	C-C Chemokine Receptor 5	AAC50598.1		40	RSQKEGLHYTCSHFYPSQ	Homo sapiens
1495	6213	C-C Chemokine Receptor 5	AAC50598.1		309	MDYQVSSPIYDINVTSEPC	Homo sapiens
1496	6363	Chemokine (C-C motif) Receptor-like 2 (CCR2)	O00421		1092	EDEYDVLIEGELESEAEQC	Homo sapiens
1497	6363	Chemokine (C-C motif) Receptor-like 2 (CCR2)	O00421		1093	KGNFFSARRRVPCGIITSVL	Homo sapiens
1498	6363	Chemokine (C-C motif) Receptor-like 2 (CCR2)	O00421		1094	MIRKTLRFREQRYSFLKLVFA	Homo sapiens
1499	6363	Chemokine (C-C motif) Receptor-like 2 (CCR2)	O00421		1096	RSNTPLQPRGQSAQGTRE	Homo sapiens
1500	6446	Pael Receptor (GPR37)	AAC51281.1		127	GPNGSARDVLRARAPREEQG	Homo sapiens
1501	6446	Pael Receptor (GPR37)	AAC51281.1		129	DPGGPRRGNSINRRVRKINP	Homo sapiens
1502	6446	Pael Receptor (GPR37)	AAC51281.1		130	LRQLSKEDLGFSGRAPAERC	Homo sapiens
1503	6446	Pael Receptor (GPR37)	AAC51281.1		131	PRGAVISGRSQEQSVKTPG	Homo sapiens
1504	6446	Pael Receptor (GPR37)	AAC51281.1		1781	CIQKSSVTSDNDNDNEYTE	Homo sapiens
1505	6446	Pael Receptor (GPR37)	NP_005293.1		1806	CIQKSSVTSDNDNDNEYTE	Homo sapiens
1506	6536	Putative Neurotransmitter Receptor (PNR)	O14804		319	TDVVEITRLSQWLEEMPC	Homo sapiens

1507	6536	Putative Neurotransmitter Receptor (PNR)	O14804	320	KSLAGAAKHERKAAKT	Homo sapiens
1508	6536	Putative Neurotransmitter Receptor (PNR)	O14804	321	RKALKLTLSQKVFSPQTR	Homo sapiens
1509	6536	Putative Neurotransmitter Receptor (PNR)	O14804	485	HPAAFCYQVNGSCPR	Homo sapiens
1510	6777	G Protein-Coupled Receptor TM7SF1	O60478	788	KAKSKYSPPELLKYRLP	Homo sapiens
1511	6777	G Protein-Coupled Receptor TM7SF1	O60478	790	KTGNWERKVIVSVRVA	Homo sapiens
1512	6777	G Protein-Coupled Receptor TM7SF1	O60478	791	KSVHSFDYDWNVNSDQAD	Homo sapiens
1513	6777	G Protein-Coupled Receptor TM7SF1	O60478	792	RVRNPTKDLTNPQMVP	Homo sapiens
1514	6777	G Protein-Coupled Receptor TM7SF1	O60478	793	RYDSDDDLAWNIAPOGLQ	Homo sapiens
1515	6853	Purinergic Receptor P2Y11	O43190	865	PTLSFSLKRPQQGAGNC	Homo sapiens
1516	6853	Purinergic Receptor P2Y11	O43190	866	GALGRAVLRSFGMTVAE	Homo sapiens
1517	6853	Purinergic Receptor P2Y11	O43190	867	MRVLNVDAARRRWSTRC	Homo sapiens
1518	6853	Purinergic Receptor P2Y11	O43190	868	CPGYRDSWNPEDAKSTGQA	Homo sapiens
1519	6853	Purinergic Receptor P2Y11	O43190	2299	CPANFLAAADDKLSGFQGD	Homo sapiens
1520	6853	Purinergic Receptor P2Y11	O43190	2300	ASNGLALYRFSIRKQR	Homo sapiens
1521	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	137	CNRSSTRHHEQPETSN	Homo sapiens
1522	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	139	PNQIRIRIMAAAKPKHD	Homo sapiens
1523	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	140	EKRLRVHAHSTDSAR	Homo sapiens
1524	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	141	VQIRPLLFASSRRQSSARRTEK	Homo sapiens
1525	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	142	QSEAEPSQSKSQSLLESLEP	Homo sapiens
1526	7221	Galanin Receptor GalR2	AAC39634.1	197	NLTVCHPAWSAPRRRAMD	Homo sapiens
1527	7221	Galanin Receptor GalR2	AAC39634.1	198	RAVDPAAGSGARRAKRK	Homo sapiens
1528	7221	Galanin Receptor GalR2	AAC39634.1	199	GRAPGRASGRVCAARG	Homo sapiens
1529	7221	Galanin Receptor GalR2	AAC39634.1	200	ERESDLLHMEAAAGALRPPC	Homo sapiens
1530	7246	Orexin Receptor 1	AAC39601.1	235	DQLGDLEQGLSGEPQP	Homo sapiens
1531	7246	Orexin Receptor 1	AAC39601.1	236	EPSAIPGAQMGVPPGSR	Homo sapiens

1532	7246	Orexin Receptor 1	AAC39601.1	237	KRPDQLGLDLEQLSGEPQ	Homo sapiens
1533	7246	Orexin Receptor 1	AAC39601.1	239	KAPSPRSSASHKSLSGSRC	Homo sapiens
1534	7247	Orexin Receptor 2	AAC39602.1	240	SELNETQEPFLNPTDYDDEE	Homo sapiens
1535	7247	Orexin Receptor 2	AAC39602.1	241	KWKPLQPVSQPRGPGQ	Homo sapiens
1536	7247	Orexin Receptor 2	AAC39602.1	242	TKSRMSAVAAEIKQIRA	Homo sapiens
1537	7247	Orexin Receptor 2	AAC39602.1	243	RQEDRLTRGRISTESRKS	Homo sapiens
1538	8436	Platelet-Activating Factor Receptor	P25105	1097	AVTRPIKTAQANTRKR	Homo sapiens
1539	8436	Platelet-Activating Factor Receptor	P25105	1098	DSTNTVPDSAGSGNVTRC	Homo sapiens
1540	8436	Platelet-Activating Factor Receptor	P25105	1099	QQRNAEVKRRALWMVC	Homo sapiens
1541	8436	Platelet-Activating Factor Receptor	P25105	1100	KKFRKHLTEKFYSMPSSRKC	Homo sapiens
1542	8509	G Protein-Coupled Receptor Ls8509	Q14439	398	DRYYSVLYPLERKISDAKSR	Homo sapiens
1543	8509	G Protein-Coupled Receptor Ls8509	Q14439	400	DEESEAKEYIGSADFQAKE	Homo sapiens
1544	8509	G Protein-Coupled Receptor Ls8509	Q14439	401	ETRNKKRLLPPLGNITPEE	Homo sapiens
1545	8509	G Protein-Coupled Receptor Ls8509	Q14439	402	ELQTKVPKVGRRVERKMSR	Homo sapiens
1546	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1078	KKQRKAGNFTSILIAN	Homo sapiens
1547	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1079	FRNLSLPTDLYTHQVAC	Homo sapiens
1548	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1080	CVENWPSKKDRLLFTT	Homo sapiens
1549	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1081	CLRRRNAKVDDKKKENEGR	Homo sapiens
1550	9421	Neuropeptide Y Receptor Type 1	P25929	1064	DEPFQNVTLDAYKDKYVC	Homo sapiens
1551	9421	Neuropeptide Y Receptor Type 1	P25929	1065	CYFKIYIRLKRNNNMMDK	Homo sapiens
1552	9421	Neuropeptide Y Receptor Type 1	P25929	1066	CDFRSRDDDYETIAMS	Homo sapiens
1553	9421	Neuropeptide Y Receptor Type 1	P25929	1498	ENDDDCHLPLAMIFTLALA	Homo sapiens
1554	9421	Neuropeptide Y Receptor Type 1	P25929	2291	SNFSEKNAQLLAFENDDC	Homo sapiens

1555	9834	Type 1	NP_004373.1	1778	CESLSLASNSDNGYRE	Homo sapiens
1556	9834	Corticotropin releasing factor Receptor 1	NP_004373.1	1779	CQEILNEEKSKVHYHVA	Homo sapiens
1557	10457	Frizzled-2	NP_001457.1	1774	NHSEDGAPALLTAPP	Homo sapiens
1558	10457	Frizzled-2	NP_001457.1	1775	GGAPPRYATLEHPHC	Homo sapiens
1559	10457	Frizzled-2	NP_001457.1	1776	CEPARPDGSMFSEQEE	Homo sapiens
1560	11968	Putative Leukocyte Platelet-Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1082	AAREAGAAVRRPLGPE	Homo sapiens
1561	11968	Putative Leukocyte Platelet-Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1083	LYRRPPREKIGRRRA	Homo sapiens
1562	11968	Putative Leukocyte Platelet-Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1085	PRELAAGQSFHGClyR	Homo sapiens
1563	11968	Putative Leukocyte Platelet-Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1086	CKTVRLSDVRVRPVNTYAR	Homo sapiens
1564	14198	Interleukin-8 Receptor B	P25025	802	EDFWKGEDLSNYSYSS	Homo sapiens
1565	14198	Interleukin-8 Receptor B	P25025	803	PPFLDDAAPCEPESE	Homo sapiens
1566	14198	Interleukin-8 Receptor B	P25025	804	RRTVSSNVSPACYE	Homo sapiens
1567	14198	Interleukin-8 Receptor B	P25025	805	SKDSLPKDSRPSFVGS	Homo sapiens
1568	14641	Calcitonin Receptor	P30988	766	PKPFLYVVGRRKKMMDAQYKC	Homo sapiens
1569	14641	Calcitonin Receptor	P30988	769	VEVVPNGELVRRDPVSC	Homo sapiens
1570	14641	Calcitonin Receptor	P30988	771	KIQWNGRWGRRPSNRS	Homo sapiens
1571	14641	Calcitonin Receptor	P30988	772	CHQEPRNEPANNGEESAE	Homo sapiens
1572	16041	C-C Chemokine Receptor 6	P51684	355	TKSFRLRSLPRSKIIC	Homo sapiens
1573	16041	C-C Chemokine Receptor 6	P51684	356	STFVFNQKYNITQGSDVCE	Homo sapiens
1574	16041	C-C Chemokine Receptor 6	P51684	357	TAANLGKMNRSQSE	Homo sapiens
1575	16041	C-C Chemokine Receptor 6	P51684	358	RYSENISRQTSETADNDNAS	Homo sapiens
1576	16599	Smoothed	NP_005622.1	2595	CPLAPPELHPPAPAP	Homo sapiens
1577	16599	Smoothed	NP_005622.1	2666	CAIVERERGWPDFLR	Homo sapiens
1578	16599	Smoothed	NP_005622.1	2667	CTNEVQNIKFNSSGQ	Homo sapiens
1579	16599	Smoothed	NP_005622.1	2668	CEVPLVRTDNPKSWE	Homo sapiens
1580	16599	Smoothed	NP_005622.1	2669	CRADGTMRLGEPTSNE	Homo sapiens

1581	16599	Smoothed	NP_005622.1	2670	EAEISPELQKRLGRKK	Homo sapiens
1582	16599	Smoothed	NP_005622.1	2671	ANVTIGLPTKGPIPC	Homo sapiens
1583	17250	G Protein-Coupled Receptor GPR45	O43898	1227	SNASDSGSTQLPAPLR	Homo sapiens
1584	17250	G Protein-Coupled Receptor GPR45	O43898	1228	CVLGYTELPAADRAYVV	Homo sapiens
1585	17250	G Protein-Coupled Receptor GPR45	O43898	1249	LNTVRKNAVVRVHNGSD	Homo sapiens
1586	17250	G Protein-Coupled Receptor GPR45	O43898	1272	KVPERIRRRIGPSTVYC	Homo sapiens
1587	17250	G Protein-Coupled Receptor GPR45	O43898	1273	DSLDIRQLTRAGLRRL	Homo sapiens
1588	17345	G Protein-Coupled Receptor D6	LR13	363	EDADAENSSFYYVDYLDE	Homo sapiens
1589	17345	G Protein-Coupled Receptor D6	LR13	364	DKYLEIVHAQPVHRLRTR	Homo sapiens
1590	17345	G Protein-Coupled Receptor D6	LR13	365	CVLVRLRPAGGGRAIK	Homo sapiens
1591	17345	G Protein-Coupled Receptor D6	LR13	366	DLGERQSENYPNKEDVGNK	Homo sapiens
1592	17535	Gaba(b) Receptor 1	O95375	188	EKLTKRLKRHPETGGFQEA	Homo sapiens
1593	17535	Gaba(b) Receptor 1	O95375	189	KKEEKKEWRKTLEPWK	Homo sapiens
1594	17535	Gaba(b) Receptor 1	O95375	190	DPLHRTIETFAKEPKEDID	Homo sapiens
1595	17535	Gaba(b) Receptor 1	O95375	191	YEIEYVCRGEREVVGPVKVRK	Homo sapiens
1596	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1205	SLWETVQKWREYRRQC	Homo sapiens
1597	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1206	LQKDNSSLPWRLDSEC	Homo sapiens
1598	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1208	CIVVSKLKANLIMCKTD	Homo sapiens
1599	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1209	RWRLEHLHIGRDSSMKPLKC	Homo sapiens
1600	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1520	CQVDETEEPDVHLPQP	Homo sapiens
1601	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1521	REGLEAAGAAGASAAAYSS	Homo sapiens
1602	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1522	KLPSARAKIRITSSPI	Homo sapiens
1603	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1523	ESKSSIKRVLAITTVLS	Homo sapiens

1604	18471	Receptor LOC51210	NP_057456.1	1524	GGTLEILYPDAHLSAED	Homo sapiens
1605	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1525	PKTPLKERISLPSRRS	Homo sapiens
1606	19072	G Protein-Coupled Receptor LOC51210	ENSP00000164265	2030	SVVQLRRQRDPDFEWNEGILC	Homo sapiens
1607	19072	Receptor Ls19072	ENSP00000164265	2032	PAVGWHDTSERYTHGC	Homo sapiens
1608	19072	G Protein-Coupled Receptor Ls19072	ENSP00000164265	2047	AVQVGRQADRRRAFTVPT	Homo sapiens
1609	19501	Receptor Ls19072	Q9UIZ3	1513	EHEPAGEEALRQKRAVATK	Homo sapiens
1610	19501	G Protein-Coupled Receptor KIAA0758	Q9UIZ3	1514	ALRQKRAVATKSPITAE	Homo sapiens
1611	19501	G Protein-Coupled Receptor KIAA0758	Q9UIZ3	1515	CEKEVLSSNVSWRYEEQQLE	Homo sapiens
1612	19501	Receptor KIAA0758	Q9UIZ3	1518	RLANNTGGWDSSGCVVEGD	Homo sapiens
1613	19501	G Protein-Coupled Receptor KIAA0758	Q9UIZ3	1519	CKQEKSLFQISKISG	Homo sapiens
1614	21632	G Protein-Coupled Receptor Ls21632	BAA96055.1	2164	CTAFQRRREGGVPGTRPGSPG	Homo sapiens
1615	21632	G Protein-Coupled Receptor Ls21632	BAA96055.1	2166	APGTRASRRCDRAGRWE	Homo sapiens
1616	21632	G Protein-Coupled Receptor Ls21632	BAA96055.1	2167	CPAERVANNRGRDFRWPR	Homo sapiens
1617	21632	G Protein-Coupled Receptor Ls21632	BAA96055.1	2171	QNPPPEPEPPADQQLRFRC	Homo sapiens
1618	21632	G Protein-Coupled Receptor Ls21632	BAA96055.1	2175	VPLGGGAPGTRASRRRC	Homo sapiens
1619	22315	G Protein-Coupled Receptor GPR92/GPR93	LR29	425	PAARVHRPSRCRYRD	Homo sapiens
1620	22315	G Protein-Coupled Receptor GPR92/GPR93	LR29	426	TLARPDATQSQRRRKTVRL	Homo sapiens
1621	22315	G Protein-Coupled Receptor GPR92/GPR93	LR29	427	RSKLVAASVPARDVRG	Homo sapiens
1622	22315	G Protein-Coupled Receptor GPR92/GPR93	LR29	428	AQSERSAVTTIDATRPD	Homo sapiens

1623	22925	Latrophilin-3	O94867	1138	CSGKSTESSIGSGKTSGSR	Homo sapiens
1624	22925	Latrophilin-3	O94867	1140	ENHQPHHYTRRRIPQD	Homo sapiens
1625	22925	Latrophilin-3	O94867	1141	ESVTSTQTEPPPAKC	Homo sapiens
1626	22925	Latrophilin-3	O94867	1497	SSASLNREGLLNNARD	Homo sapiens
1627	25359	G Protein-Coupled Receptor GPR34	O95853	1255	DRYIKINRSIQQRKAIT	Homo sapiens
1628	25359	G Protein-Coupled Receptor GPR34	O95853	1257	CFHYRDKHNAKGEAIFN	Homo sapiens
1629	25359	G Protein-Coupled Receptor GPR34	O95853	1258	RISKRRSKFPNSGKYA	Homo sapiens
1630	25359	G Protein-Coupled Receptor GPR34	O95853	1259	CQLLFRRFQGEPSRSESTSE	Homo sapiens
1631	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2721	RLQEILTFEKINKTR	Homo sapiens
1632	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2722	KGKSRAAENASLGPTN	Homo sapiens
1633	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2723	LLFGTIMDHKIRDALR	Homo sapiens
1634	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2724	RPSIGSSKSQDVVIMIRI	Homo sapiens
1635	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1579	KLPNNELHGQESHNSGN	Homo sapiens
1636	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1580	SGNRSDGGPGKNTLHNEFD	Homo sapiens
1637	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1581	RQFISQSSRRKRKHNSIR	Homo sapiens
1638	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1582	SHLDRLDESAQKILWC	Homo sapiens
1639	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1584	CRSFSRRFLFKKSNIRTRSE	Homo sapiens
1640	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1585	ESIRSLQSVRRSEVRIYYD	Homo sapiens
1641	31568	G Protein-Coupled Receptor RE2	O75963	331	CRKELSNLITEEGGEGGV	Homo sapiens
1642	31568	G Protein-Coupled Receptor RE2	O75963	332	EEDAGRTGRKNSSTSTSSS	Homo sapiens
1643	31568	G Protein-Coupled Receptor RE2	O75963	333	CFGDRYYREPFVQRQRTSR	Homo sapiens
1644	31568	G Protein-Coupled Receptor RE2	O75963	334	HSSSTGDTGFSCSQDSGNL	Homo sapiens

1645	36534	Receptor RE2	1232	CQKLQKIDLRHNEVEIKVD	Homo sapiens
1646	36534	G Protein-Coupled Receptor GPR49	1233	NKGDNSSMDDLHKKDA	Homo sapiens
1647	36534	G Protein-Coupled Receptor GPR49	1234	QDERDLEDFLDFEED	Homo sapiens
1648	36534	G Protein-Coupled Receptor GPR49	1235	ERGFVSVYSAKFETKA	Homo sapiens
1649	36534	G Protein-Coupled Receptor GPR49	1236	RSKHPSLMSINSDDVEKQSC	Homo sapiens
1650	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	2597	DAQKESTGVTLRQRR	Homo sapiens
1651	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	2600	CKKINQLUSETAEAVTN	Homo sapiens
1652	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	2610	ADDQTILLEQMMDDQDDG	Homo sapiens
1653	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	2672	KYNQSIISLRPRRLASQ	Homo sapiens
1654	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	2673	KRYFAKFEKFFQTC	Homo sapiens
1655	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	2674	DGDRQKAMKRLRVPL	Homo sapiens
1656	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	2103	RVRSGRVRSYSTRDFQDC	Homo sapiens
1657	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	2105	CNNSVPGKEHPFDITVMIRE	Homo sapiens
1658	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	2106	APSKPGLPKPQATVPRKVD	Homo sapiens
1659	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	2135	AASKPKSTPAVIQGPSGKD	Homo sapiens
1660	42697	G Protein-Coupled Receptor GPR64	1261	KRSELNKTILQTLSETYFMC	Homo sapiens
1661	42697	G Protein-Coupled Receptor GPR64	1262	GNASTERNGVSFSVQNGDVC	Homo sapiens
1662	42697	G Protein-Coupled Receptor GPR64	1263	CRICKKKQLGAQRKTSIQD	Homo sapiens
1663	42697	G Protein-Coupled Receptor GPR64	1264	DFTGKQHMFNEKEDSC	Homo sapiens

1664	45937	KIAA1624 Protein	AAK57695	2072	PNVNPASAGNQTKTQD	Homo sapiens
1665	45937	KIAA1624 Protein	AAK57695	2073	RVKSPPEAGTQLPKIIFS	Homo sapiens
1666	45937	KIAA1624 Protein	AAK57695	2074	KDGYMVVNVSSLSNEPED	Homo sapiens
1667	45937	KIAA1624 Protein	AAK57695	2076	RSTVDSKAMGEKFSVHNING	Homo sapiens
1668	50847	Neurotensin Receptor type 2	O95665	1265	CQPLRARSLTPRTR	Homo sapiens
1669	50847	Neurotensin Receptor type 2	O95665	1266	GQKHELETADGEPEASRVC	Homo sapiens
1670	50847	Neurotensin Receptor type 2	O95665	1267	KKTFIQGGQVSLVRHKD	Homo sapiens
1671	50847	Neurotensin Receptor type 2	O95665	1269	CGEHHPMKRLPPKQSP	Homo sapiens
1672	50847	Neurotensin Receptor type 2	O95665	2294	STSTPGSSTPSRLELSEE	Homo sapiens
1673	50847	Neurotensin Receptor type 2	O95665	2301	METSSPRPPRPSSNPG	Homo sapiens
1674	50847	Neurotensin Receptor type 2	O95665	2302	CSQVPSTSTPGSSTPSR	Homo sapiens
1675	53440	G Protein-Coupled Receptor LS53440	LR76	1850	DPNGNESSATYFILIG	Homo sapiens
1676	53440	G Protein-Coupled Receptor LS53440	LR76	1851	RHATVTLPRVTIKGV	Homo sapiens
1677	53440	G Protein-Coupled Receptor LS53440	LR76	1852	ILKTVLGLTREAAQAKA	Homo sapiens
1678	53440	G Protein-Coupled Receptor LS53440	LR76	1853	HRFSKRDRDSPLPVILAN	Homo sapiens
1679	53440	G Protein-Coupled Receptor LS53440	LR76	1854	KEIRQRILRLFHVATHASE	Homo sapiens
1680	54053	Gaba(b) Receptor 2	O75899	1416	GEDIEISDTESFSNDPC	Homo sapiens
1681	54053	Gaba(b) Receptor 2	O75899	1417	SSKQIKTISGKTPQQYE	Homo sapiens
1682	54053	Gaba(b) Receptor 2	O75899	1419	AATGNRRRFQFTQNGKKE	Homo sapiens
1683	54053	Gaba(b) Receptor 2	O75899	1420	CKDPIEDINSPEHIQRR	Homo sapiens
1684	55728	ETL protein	NP_071442.1	2113	CVLSRKIGEEYRILFKNVP	Homo sapiens
1685	55728	ETL protein	NP_071442.1	2114	CIAANINKTLTKIRSIKEP	Homo sapiens
1686	55728	ETL protein	NP_071442.1	2115	KLSVNHRRTHLTKLMHTVE	Homo sapiens
1687	55728	ETL protein	NP_071442.1	2116	EKITFLSHRKVTDYRSLC	Homo sapiens
1688	55728	ETL protein	NP_071442.1	2117	SSSLLGYKNNTISAKD	Homo sapiens
1689	56923	Muscarinic acetylcholine	P20309	1421	CSSYELQQQSMKRSNRRK	Homo sapiens

1690	56923	Receptor M3	P20309	1422	KPSSEQIMDQDHSSSDSWNNIN	Homo sapiens
1691	56923	Muscarinic acetylcholine Receptor M3	P20309	1423	DLERKADKLQAQKSVD	Homo sapiens
1692	56923	Muscarinic acetylcholine Receptor M3	P20309	1424	KEATLAKRFALKTRSQ	Homo sapiens
1693	57180	Muscarinic acetylcholine Receptor M3	NP_062813.1	2097	PPTCRPRRMSVCYRPPGNE	Homo sapiens
1694	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2098	CLAVTRPFLAPRURSPALAR	Homo sapiens
1695	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2099	RGARWGSGRHGARVGR	Homo sapiens
1696	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2100	TAGDLLPRAGPRFLTR	Homo sapiens
1697	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2101	EGSGEARGGGRSREGTME	Homo sapiens
1698	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2102	RTTPQLKVVGGQGRNGD	Homo sapiens
1699	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1909	RSAPTALSRRLRARTHLPGC	Homo sapiens
1700	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1910	VRGSHGEPDASLMPRSC	Homo sapiens
1701	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1911	RKEDSVLMEATSGGPTSF	Homo sapiens
1702	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1912	DQNKADIGGMLPGLTVRSV	Homo sapiens
1703	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1913	PAGWPDQSLAESDSEDPG	Homo sapiens
1704	74514	5-HT5A Receptor	NP_076917.1	2118	ETNHSGLGKDDLPPSP	Homo sapiens
1705	74514	5-HT5A Receptor	NP_076917.1	2119	SLVHELSGRRWQLGRRLC	Homo sapiens
1706	74514	5-HT5A Receptor	NP_076917.1	2120	LLFGWGETYSEGSEEC	Homo sapiens
1707	74514	5-HT5A Receptor	NP_076917.1	2121	FRVGSRKINSVSPISE	Homo sapiens
1708	74514	5-HT5A Receptor	NP_076917.1	2122	RHATVTFQPEGDTWREQK	Homo sapiens

1709	81765	Thromboxane A2 Receptor	P21731	1277	GITRFSRPAVASQRR	Homo sapiens
1710	81765	Thromboxane A2 Receptor	P21731	1278	CHVYHGQEAAGQRPDSEVE	Homo sapiens
1711	81765	Thromboxane A2 Receptor	P21731	1279	RNPPAMSPAGQLSRTE	Homo sapiens
1712	81765	Thromboxane A2 Receptor	P21731	1280	RRLQPRILSTRPRVSLC	Homo sapiens
1713	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	155	RYLSVVSPSLTURVPLRC	Homo sapiens
1714	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	156	SSILDTFHVKVLSGCDYSE	Homo sapiens
1715	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	157	VEILRTLFRSRKRHRTVK	Homo sapiens
1716	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	158	QTLFRTQIRSCAEKQQL	Homo sapiens
1717	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	159	RLQAPSPASIPSPGAFAYE	Homo sapiens
1718	130108	Receptor 1 (CCXCR1)	NP_006785.1	1589	RIEPPYSYNSSPSQEE	Homo sapiens
1719	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1590	IMIAQTLRKNAQVRKC	Homo sapiens
1720	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1591	RNQNYNKLGHVQTRGYTKS	Homo sapiens
1721	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1592	SRLQLVSAINLSTAKD	Homo sapiens
1722	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1593	CKQKTRLRAMGKGNLEVNR	Homo sapiens
1723	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1594	NSAYMLSPKPQKKFVDQAC	Homo sapiens
1724	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1218	CKVQSDSNRRKMLPTQF	Homo sapiens
1725	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1219	HAVSLTKLVRGRKKPLS	Homo sapiens
1726	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1220	NVNVFELSAPRRNED	Homo sapiens
1727	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1221	TKQRNPMDDYPVEDAFC	Homo sapiens
1728	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1222	CKPQLVKSYGVENRA	Homo sapiens
1729	152198	Tachykinin Receptor 2	AAB05897.1	1286	RRVPGHQAHGANLRH	Homo sapiens
1730	152198	Tachykinin Receptor 2	AAB05897.1	1287	KEDKLEIPTTSLSTRVNC	Homo sapiens
1731	152198	Tachykinin Receptor 2	AAB05897.1	1288	KETLFMAGDTAPSEATSGEA	Homo sapiens

1732	152198	Tachykinin Receptor 2	AAB05897.1	1290	CVVAWPEDSGGKTL	Homo sapiens
1733	152201	Thyrotropin Receptor	P16473	1445	RQKSVNALNSPLHQE	Homo sapiens
1734	152201	Thyrotropin Receptor	P16473	1446	KFQDTHNNAHYVFFEEQED	Homo sapiens
1735	152201	Thyrotropin Receptor	P16473	1449	CHVKYIVRNPNQVNPQDK	Homo sapiens
1736	152201	Thyrotropin Receptor	P16473	1450	CKRQAQAYRGQRVPPKNSTD	Homo sapiens
1737	152245	C-C Chemokine Receptor 2	NP_000639.1	1896	SRSRFRNTNESGEEVT	Homo sapiens
1738	152245	C-C Chemokine Receptor 2	NP_000639.1	1898	CQKEDSVVCGPYFPRGWNN	Homo sapiens
1739	152245	C-C Chemokine Receptor 2	NP_000639.1	1899	SGEEVTFDFDYDGAPCHKF	Homo sapiens
1740	152299	Interleukin-8 Receptor A	P25024	806	DFDDLNFMTGMPADEDYSPC	Homo sapiens
1741	152299	Interleukin-8 Receptor A	P25024	807	CWGLSMNLSLPFLRQAYH	Homo sapiens
1742	152299	Interleukin-8 Receptor A	P25024	808	RHRVTSVTSSVNVSSN	Homo sapiens
1743	152299	Interleukin-8 Receptor A	P25024	1490	CMLTETLNKYVVIAYALV	Homo sapiens
1744	158822	Mas Proto-Oncogene	NP_002368.1	1527	EEPTINISTGRNASVGNHRQ	Homo sapiens
1745	158822	Mas Proto-Oncogene	NP_002368.1	1528	RRNPFVYTHLSIAD	Homo sapiens
1746	158822	Mas Proto-Oncogene	NP_002368.1	1529	YVMCIDREEESHNRDCRAV	Homo sapiens
1747	158822	Mas Proto-Oncogene	NP_002368.1	1530	SSTILVVKIRKNTWASHSK	Homo sapiens
1748	158822	Mas Proto-Oncogene	NP_002368.1	1531	TRAFKDEMQRPRQKDNK	Homo sapiens
1749	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1578	ERYLGVAFPVQYKLSRRPL	Homo sapiens
1750	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1586	QYLNITEQVRSGNETC	Homo sapiens
1751	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1588	EGTNEDRGVGGQEGMPSSD	Homo sapiens
1752	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1616	RGLQVLNRNQGSLLGRRGKD	Homo sapiens
1753	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1292	KQCLEEAQLENETIGCS	Homo sapiens
1754	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1296	KDLALFDSGESDQCSE	Homo sapiens
1755	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1297	LQKLRPDIRKSDSSP	Homo sapiens
1756	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1298	NPKYRHPSPGSGNGATC	Homo sapiens
1757	160040	Vasoactive Intestinal Polypeptide Receptor 1	P41587	1299	KVFSNFYSKAGNISKNC	Homo sapiens
1758	160040	Vasoactive Intestinal Polypeptide Receptor 2	P41587	1301	CGYSDPEDESKITFYI	Homo sapiens
1759	160040	Vasoactive Intestinal Polypeptide Receptor 2	P41587	1305	KRKWRSRCPTPSASRD	Homo sapiens

1760	160040	Polypeptide Receptor 2 Vasoactive Intestinal	P41587	1306	CGSSFSRNGSEGALQFHR	Homo sapiens
1761	160055	Polypeptide Receptor 2 Motilin Receptor (GPR38)	AAC26081.1	132	REPPWPALPPCDERRCS	Homo sapiens
1762	160055	Motilin Receptor (GPR38)	AAC26081.1	134	SPSPGPETAEEAALFSREC	Homo sapiens
1763	160055	Motilin Receptor (GPR38)	AAC26081.1	135	SSRPLRGPAASGRERGRHQ	Homo sapiens
1764	160055	Motilin Receptor (GPR38)	AAC26081.1	136	RKSRPRGFHSRDTAG	Homo sapiens
1765	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1595	NPLVTGYLGRGPGKTV	Homo sapiens
1766	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1596	GRYLGAAPFLGYQAFRRPC	Homo sapiens
1767	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1597	CLEAWDPASAGPARFS	Homo sapiens
1768	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1598	CLRALARSGLTHRRKLR	Homo sapiens
1769	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1599	NASNVASFLYPNLGGSWRK	Homo sapiens
1770	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1617	TVSLPLKAVEALASGA	Homo sapiens
1771	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1618	DHSNTSLGINTPVNGSPVC	Homo sapiens
1772	160189	G Protein-Coupled Receptor GPR54	BAB55446	1926	CSEAFPSRALERAFALY	Homo sapiens
1773	160189	G Protein-Coupled Receptor GPR54	BAB55446	1927	ERAGAVRAKVSRLVAAW	Homo sapiens
1774	160189	G Protein-Coupled Receptor GPR54	BAB55446	1928	RRPGSPDPAAPHAEHLRLGS	Homo sapiens
1775	160189	G Protein-Coupled Receptor GPR54	BAB55446	1929	GAPANASGCPGCGANASD	Homo sapiens
1776	160202	Adrenomedullin Receptor (ADMR)	O15218	390	DLFNHTLSECHVELSQST	Homo sapiens
1777	160202	Adrenomedullin Receptor (ADMR)	O15218	391	NVLTACRLRQPGQPKSRRHC	Homo sapiens
1778	160202	Adrenomedullin Receptor (ADMR)	O15218	392	KDQTKAGTCASSSSCSTQ	Homo sapiens
1779	160202	Adrenomedullin Receptor (ADMR)	O15218	484	KGDSQPAAAAAPHPEPSLS	Homo sapiens
1780	160204	G Protein-Coupled Receptor RTA	LR85	1977	CRARRRQRSTKLNHVILA	Homo sapiens

1781	160204	G Protein-Coupled Receptor RTA	LR85	1983	CPGLSEAPELYRRGFLTIEQ	Homo sapiens
1782	160204	G Protein-Coupled Receptor RTA	LR85	1985	RDGAELGEAGGTPNTVT	Homo sapiens
1783	160204	G Protein-Coupled Receptor RTA	LR85	2173	LAGRDKSQRLWEPLRV	Homo sapiens
1784	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1678	RTRKWNCGTCHYLAFNSD	Homo sapiens
1785	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1679	RAKLLREGWVHANRPKR	Homo sapiens
1786	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1680	RRVMIKEIYHPRMILL	Homo sapiens
1787	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1682	SALARAFGEFEFLSSC	Homo sapiens
1788	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1683	RSCSRKMINSSGCLSEE	Homo sapiens
1789	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	151	PGPDRDATCNSRQAALAVSK	Homo sapiens
1790	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	152	SSHAADVSLRLQHRGRRRPGR	Homo sapiens
1791	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	153	DDSELGGAGSSRRRTSSTA	Homo sapiens
1792	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	154	DGPPEPGAEGHLELEPGPRR	Homo sapiens
1793	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2220	CPILEQMSRLQSHSNTSIRY	Homo sapiens
1794	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2221	RYIDHAAVLLHGLASLLGLV	Homo sapiens
1795	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2222	CRMRTQTVTTWVHLALSDDL	Homo sapiens
1796	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2223	SASLPFFTYFLAVGHSWE	Homo sapiens
1797	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2224	CLVLWALAVLNTVPYVFRD	Homo sapiens
1798	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2225	CYWNVLLNPGPDRDAT	Homo sapiens
1799	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2226	CNSRQAALAVSKFLAFLVP	Homo sapiens
1800	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2228	RGLPFVTSLAFFNSVANPVL	Homo sapiens

1801	160210	Receptor GPR44 (CRTH2) G Protein-Coupled	NP_004769.1	2229	CSRPEEPRGPARLLGWLLGS	Homo sapiens
1802	160210	Receptor GPR44 (CRTH2) G Protein-Coupled	NP_004769.1	2230	CAASPQTGPNRALSS	Homo sapiens
1803	160212	Receptor GPR44 (CRTH2) G Protein-Coupled	Q9Y2T5	444	KEINDRRARFSPSEVDSSRE	Homo sapiens
1804	160212	Receptor GPR52 G Protein-Coupled	Q9Y2T5	445	CVKDQEAQEPKPRKRANS	Homo sapiens
1805	160212	Receptor GPR52 G Protein-Coupled	Q9Y2T5	446	RWTEWRILNMSSGIVNASER	Homo sapiens
1806	160212	Receptor GPR52 G Protein-Coupled	Q9Y2T5	622	HSCPLGFGHYSVVDVCIFE	Homo sapiens
1807	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	161	GKVEKVMCFHNMSSDDTWSAK	Homo sapiens
1808	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	162	RSIHLLGRRDHTQDWVQKQ	Homo sapiens
1809	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	163	CRAKQSFLLQLSM	Homo sapiens
1810	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	164	KEFRMINRAHRPSRVQLVLQ	Homo sapiens
1811	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	2	AQRPPDVGQAEATRKAAR	Homo sapiens
1812	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	3	KEFQEASALAVAPRAKAHK	Homo sapiens
1813	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	123	GGFCFRSTRHNFNSMR	Homo sapiens
1814	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	125	ETIRRALYTSKLSDANC	Homo sapiens
1815	160221	Receptor GPR27 G Protein-Coupled	LR6	335	FPPVLDGGGDDDEAPCALEQ	Homo sapiens
1816	160221	Receptor GPR27 G Protein-Coupled	LR6	338	RGARRLLVLEEFKTEKRLC	Homo sapiens
1817	160221	Receptor GPR27 G Protein-Coupled	LR6	496	NASEPGSGGGGEEAAALGLK	Homo sapiens
1818	160221	Receptor GPR27 G Protein-Coupled	Q54897	515	GLRALACLPVAVMLAARRA	Mus musculus
1819	160221	Receptor GPR27 G Protein-Coupled	LR6	1291	RPAGPGRGARRILLVE	Homo sapiens

1820	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1606	CQRPPKQEDGGQSPV	Homo sapiens
1821	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1607	CNMIGDVTEQYFALRRK	Homo sapiens
1822	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1610	EGRADEQSAEAAALVP	Homo sapiens
1823	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1611	QNFVGRRRYGAEQNPTVK	Homo sapiens
1824	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1600	RIFRSIKQSMGLSAAQKAK	Homo sapiens
1825	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1601	CDRFVAVVVALESRRR	Homo sapiens
1826	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1604	ATDHSRQEVSRHKGWKE	Homo sapiens
1827	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1605	KTDVTRLIHSRDTEELQS	Homo sapiens
1828	160224	Endothelin Type B Receptor- Like Protein 2 (ETBR-LP-2)	O60883	403	ETQEQQSRSKRGTEDEEAK	Homo sapiens
1829	160224	Endothelin Type B Receptor- Like Protein 2 (ETBR-LP-2)	O60883	404	SPNPDKDGCTDSDGQELR	Homo sapiens
1830	160224	Endothelin Type B Receptor- Like Protein 2 (ETBR-LP-2)	O60883	405	CQLVTWRVRGPPGRKSE	Homo sapiens
1831	160224	Endothelin Type B Receptor- Like Protein 2 (ETBR-LP-2)	O60883	406	AANGSDNKLKTEVSS	Homo sapiens
1832	160225	Spingolipid Receptor Edg6	CAA04118.1	70	PRDSFRGSRSLSRMRE	Homo sapiens
1833	160225	Spingolipid Receptor Edg6	CAA04118.1	71	ERFATMVVRPVAESGATKTSR	Homo sapiens
1834	160225	Spingolipid Receptor Edg6	CAA04118.1	72	RLVQASGGQKAPRPAAR	Homo sapiens
1835	160225	Spingolipid Receptor Edg6	CAA04118.1	73	RAVEAHSGASITDSSLRPD	Homo sapiens
1836	160225	Spingolipid Receptor Edg6	CAA04118.1	1914	IFRLVQASGGQKAPRPAAR	Homo sapiens
1837	160225	Spingolipid Receptor Edg6	CAA04118.1	1915	DSSLRPDTSFRGSRSLSRM	Homo sapiens
1838	160225	Spingolipid Receptor Edg6	CAA04118.1	1916	RSLSFRMIREPLSSISVR	Homo sapiens
1839	160225	Spingolipid Receptor Edg6	CAA04118.1	1917	GPEDGGGLGALRGLSVAASC	Homo sapiens
1840	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1625	ANIGSLCVSFLQPKKE	Homo sapiens
1841	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1626	ETIFNAVMLWEDETVE	Homo sapiens
1842	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1627	CNRKVVQAVRHINKATENKE	Homo sapiens

1843	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1628	CILEHAVNFEDHSNSGKR	Homo sapiens
1844	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1629	CNTSQRRQRKRILSVSTKD	Homo sapiens
1845	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	2303	CDAEKSNTFLCYDKYPLEK	Homo sapiens
1846	160300	Encephalopsin	NP_055137.1	2131	CTVDWWSKDANDSSFV	Homo sapiens
1847	160300	Encephalopsin	NP_055137.1	2132	CVEDLQTIQVILKYEK	Homo sapiens
1848	160300	Encephalopsin	NP_055137.1	2133	CQRPADLPAAAGSEMQRIP	Homo sapiens
1849	160300	Encephalopsin	NP_055137.1	2134	TSDESLVDDSDKTIG	Homo sapiens
1850	160312	Spingolipid Receptor Edg5	O95136	1018	ERHVAIAKVLYGSDKSC	Homo sapiens
1851	160312	Spingolipid Receptor Edg5	O95136	1019	RSRDLRREVLRLPLQC	Homo sapiens
1852	160312	Spingolipid Receptor Edg5	O95136	1020	QEHYNYTKETLETQET	Homo sapiens
1853	160312	Spingolipid Receptor Edg5	O95136	1021	GRRRVGTPGHHLLPLR	Homo sapiens
1854	160314	G Protein-Coupled Receptor GPR103	ENSMIPRT221753	1922	MMRKKAKFSLRENIPVEETKG	Homo sapiens
1855	160314	G Protein-Coupled Receptor GPR103	ENSMIPRT221753	1923	MMIEYSNFEKEYDDVTIKM	Homo sapiens
1856	160314	G Protein-Coupled Receptor GPR103	ENSMIPRT221753	1924	CEQTEEEKKLKRHLALFRSE	Homo sapiens
1857	160314	G Protein-Coupled Receptor GPR103	ENSMIPRT221753	1925	KKRVGDGSLRTIHGKEMSK	Homo sapiens
1858	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	463	DRARRERFIMNEKWDINSSE	Homo sapiens
1859	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	464	RKNQEQWHVVSRRKKQIKI	Homo sapiens
1860	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	465	RKSAEKPQQELVMEELKE	Homo sapiens
1861	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	500	RQSAGDRRRRLGLSRQTAK	Homo sapiens
1862	160324	G Protein-Coupled Receptor	NP_076403.1	1619	DRFLKIIRPLRNIFLKKP	Homo sapiens
1863	160324	GPR86/GPR94/P2Y13 G Protein-Coupled Receptor	NP_076403.1	1620	MILSNKEATPSSVKKC	Homo sapiens
1864	160324	GPR86/GPR94/P2Y13 G Protein-Coupled Receptor	NP_076403.1	1622	VYDSYRKSXSKDRKNN	Homo sapiens
1865	160324	GPR86/GPR94/P2Y13 G Protein-Coupled Receptor	NP_076403.1	1623	ARVPYTHSQTNNTKDC	Homo sapiens

1866	160324	G Protein-Coupled Receptor	NP_076403.1	1624	CMQGRKTTASSQENHSSQTD	Homo sapiens
1867	160329	GPR86/GPR94/P2Y13 Proteinase-Activated Receptor 4	O76067	1308	CANDSDTLELPDSSRA	Homo sapiens
1868	160329	Proteinase-Activated Receptor 4	O76067	1309	PLRARALRGRRRLALGLC	Homo sapiens
1869	160329	Proteinase-Activated Receptor 4	O76067	1310	LQRQTFLRARSDRVLC	Homo sapiens
1870	160329	Proteinase-Activated Receptor 4	O76067	1311	RDKVRAGLFQIRSPGDT	Homo sapiens
1871	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	Q9Y653	1213	CELRDLQLLSQFLKHPQK	Homo sapiens
1872	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	Q9Y653	1214	TSVRFMGDMVSFEEDR	Homo sapiens
1873	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	Q9Y653	1215	RQEEEQSEIMEYSVLLP	Homo sapiens
1874	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	Q9Y653	1216	RTLFQRTKGRSGEAEKR	Homo sapiens
1875	160387	Glucagon-Like Peptide 2 Receptor	O95838	1312	GSLLEETTRKWAQYKQAC	Homo sapiens
1876	160387	Glucagon-Like Peptide 2 Receptor	O95838	1313	QTIENATDIWQDDSEC	Homo sapiens
1877	160387	Glucagon-Like Peptide 2 Receptor	O95838	1315	CPKKLSEGDGAELRK	Homo sapiens
1878	160387	Glucagon-Like Peptide 2 Receptor	O95838	1316	QQDHARWPRGSSLSEC	Homo sapiens
1879	160388	Latrophilin-1	O94910	1121	EPTSTHSEHQSGAWC	Homo sapiens
1880	160388	Latrophilin-1	O94910	1126	CEPREVRRVQWPATQQ	Homo sapiens
1881	160388	Latrophilin-1	O94910	1129	RSQDFPPGDGGPEPPR	Homo sapiens
1882	160388	Latrophilin-1	O94910	1131	CTAEDGATSRPLSSPPGRDS	Homo sapiens
1883	160388	Latrophilin-1	O94910	1706	RESAGKNYNKMHKRETC	Homo sapiens
1884	160388	Latrophilin-1	O94910	1707	RDSPSYDSSPEGPSEALP	Homo sapiens
1885	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1938	QVGPCRSLGSRGRGSSGAC	Homo sapiens
1886	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1939	CRDAGTELIGHLVPHHDGLR	Homo sapiens

1887	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1940	CKLAQAPGLRAGERSPEESL	Homo sapiens
1888	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1942	RVSDIPEGVNSLDPSHGES	Homo sapiens
1889	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1943	RSGKSQPSYIPFLREES	Homo sapiens
1890	160397	Latrophilin-2	O95490	1132	CEALDSKGIKWPQTQR	Homo sapiens
1891	160397	Latrophilin-2	O95490	1133	DILDAQLQELKPSEKD	Homo sapiens
1892	160397	Latrophilin-2	O95490	1136	RTHSLLYQPQKKV/KSE	Homo sapiens
1893	160397	Latrophilin-2	O95490	1137	RDSPYPESPDMEEDL	Homo sapiens
1894	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1630	CQEQKMLRTLDSYNNIRD	Homo sapiens
1895	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1631	CDSYANLNTEDNSLQD	Homo sapiens
1896	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1632	KGTAADAANVTILENEE	Homo sapiens
1897	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1633	ERSLSAKDIMKNGKSNHLK	Homo sapiens
1898	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1634	CNLEKEDLSENSQSSMIK	Homo sapiens
1899	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1635	KRRVTIKSGSVSVSIS	Homo sapiens
1900	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1636	CGTQSAHSDYADEEDS	Homo sapiens
1901	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1637	DEEDSFVSDSDQVQAC	Homo sapiens
1902	160435	LS160435 Receptor	LR80	1918	ATILKLRTEEAHGREQRR	Homo sapiens
1903	160435	LS160435 Receptor	LR80	1919	CRRVPRDTLDIRRESLFSAR	Homo sapiens
1904	160435	LS160435 Receptor	LR80	1920	PLSSKRWRRRRYAVAAC	Homo sapiens
1905	160435	LS160435 Receptor	LR80	1921	CRRMGPRSPSVIFMINL	Homo sapiens
1906	160889	Platelet Activating Receptor Homolog (H963)	O14626	1223	MMIPIKDIKEKSNVGC	Homo sapiens
1907	160889	Platelet Activating Receptor Homolog (H963)	O14626	1224	CLVIRQLYRNKDNENVP	Homo sapiens
1908	160889	Platelet Activating Receptor	O14626	1225	CSTRISLFKAKEATLL	Homo sapiens

1909	160889	Homolog (H963) Platelet Activating Receptor	O14626	1226	ETFA SPKETKAQKEKLR	Homo sapiens
1910	161024	Homolog (H963) Protein A	NP_062832.1	1690	ESRAVGLPLGLSAGRR	Homo sapiens
1911	161024	Protein A	NP_062832.1	1691	EDARGKRRSSLDGSESAK	Homo sapiens
1912	161024	Protein A	NP_062832.1	1692	RTVWEGCVAIMSEEDGD	Homo sapiens
1913	161024	Protein A	NP_062832.1	1693	CKVRFDANGATGPGSRD	Homo sapiens
1914	161024	Protein A	NP_062832.1	1694	RRLSHDENIFSTPRE	Homo sapiens
1915	161024	Protein A	NP_062832.1	1695	GGPPEYLGQRHLEDEED	Homo sapiens
1916	161024	Protein A	NP_062832.1	1696	REEITFIDETPLSP	Homo sapiens
1917	161024	Protein A	NP_062832.1	1697	RRPRPLGLSPRRLSLGSP	Homo sapiens
1918	161214	Galanin Receptor GalR3	AAC35944.1	202	RYGALELCVPAWEDARR	Homo sapiens
1919	161214	Galanin Receptor GalR3	AAC35944.1	203	GAAAEARRRATGRAGR	Homo sapiens
1920	161214	Galanin Receptor GalR3	AAC35944.1	204	ASRHFRRFRRLWPC	Homo sapiens
1921	161214	Galanin Receptor GalR3	AAC35944.1	205	RAIRALRRVRPSSGPP	Homo sapiens
1922	161221	Urotensin-II Receptor (GPR14)	LR15	371	ERYAAVLRPLDTVQRPKG	Homo sapiens
1923	161221	Urotensin-II Receptor (GPR14)	LR15	372	RAYRRSQRASFKRARRPGAR	Homo sapiens
1924	161221	Urotensin-II Receptor (GPR14)	LR15	373	RNYRDHLRGVRGPGSG	Homo sapiens
1925	161221	Urotensin-II Receptor (GPR14)	LR15	374	RARFQRCSGRSLCSPQPTD	Homo sapiens
1926	161249	G Protein-Coupled Receptor GPR66	LR20	394	ARGHFDPEDLNLTDALRLK	Homo sapiens
1927	161249	G Protein-Coupled Receptor GPR66	LR20	395	IGLRRLRRERLLMQEAKGRG	Homo sapiens
1928	161249	G Protein-Coupled Receptor GPR66	LR20	396	RGSAARSRYSYTCRLQGH	Homo sapiens
1929	161249	G Protein-Coupled Receptor GPR66	LR20	397	ALCLGACCHRLRPRHSS	Homo sapiens
1930	161251	Purinergic Receptor P2Y10	O00398	859	CFLLKPFRRARDWKRRYD	Homo sapiens
1931	161251	Purinergic Receptor P2Y10	O00398	860	PFPILRSTDNNKSC	Homo sapiens
1932	161251	Purinergic Receptor P2Y10	O00398	862	QLSRHGSSVTRSLMSKE	Homo sapiens
1933	161251	Purinergic Receptor P2Y10	O00398	863	LRQPPMAFGGISERQK	Homo sapiens
1934	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1672	YDDDDVDVDEESAPC	Equine herpesvirus 2

1935	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1674	CDPYPEMSTNVWRRRAHVAK	Equine herpesvirus 2
1936	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1675	CYYVIRLLRRPSKK	Equine herpesvirus 2
1937	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1676	CKYIPFLSGDGEKKEGPT	Equine herpesvirus 2
1938	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1820	RNLTSSPAPTASPPAPS	Homo sapiens
1939	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1821	PSWTPSPRPSPAHPFLQPP	Homo sapiens
1940	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1822	RSSHQKRGTRDVGSNVC	Homo sapiens
1941	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1823	KSTSTASFVSSSHMSVEE	Homo sapiens
1942	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1317	TSSPFLMAKPKQKDEKNNTKC	Homo sapiens
1943	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1318	KKSMKKNLSSHKAIG	Homo sapiens
1944	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1319	QRTIHLHLHNETKPC	Homo sapiens
1945	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1320	RKHSLSSTVTVPRKKASLPE	Homo sapiens
1946	177191	Histamine H3 Receptor	Q9Y5N1	474	RAVSYRAQQGDTTRRAVRK	Homo sapiens
1947	177191	Histamine H3 Receptor	Q9Y5N1	475	QRRTRLRDGAREAAAGPE	Homo sapiens
1948	177191	Histamine H3 Receptor	Q9Y5N1	476	QSFTQRFRLSRDRKVA	Homo sapiens
1949	177191	Histamine H3 Receptor	Q9Y5N1	477	RYGVGEAAVGAEGEATLG	Homo sapiens
1950	177191	Histamine H3 Receptor	Q9Y5N1	1477	SSRGTERPRSLKRGSKPSAS	Homo sapiens
1951	177191	Histamine H3 Receptor	Q9Y5N1	1479	KPSASSASLEKRMKIMVS	Homo sapiens
1952	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2052	RTLFSFYFRDTPRANR	Homo sapiens
1953	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2053	RPEMSRGLLAVRGAFV	Homo sapiens
1954	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2059	CAVLSHRRRAQPWALLLV	Homo sapiens
1955	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2733	RVLVSDSLFVICALS	Homo sapiens

1956	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1014	KRKTNVLSPTSGSIS	Homo sapiens
1957	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1015	CFSQENPERPSRIPST	Homo sapiens
1958	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1016	SYKDEDMYGTMKKMIC	Homo sapiens
1959	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1017	VERHMSIMRMVRHSN	Homo sapiens
1960	189873	G Protein-Coupled Receptor GPR78	LR37	443	CQRMDTVTMKALLAD	Homo sapiens
1961	189873	G Protein-Coupled Receptor GPR78	LR37	528	CSLRLPPEPERPFAAFTAT	Homo sapiens
1962	189873	G Protein-Coupled Receptor GPR78	LR37	533	RGPLPPGICAHSAQGALRR	Homo sapiens
1963	189873	G Protein-Coupled Receptor GPR78	LR37	534	CRQAQARDLGAPWAVGLRSL	Homo sapiens
1964	189874	Neuromedin U Receptor 2	LR28	420	QQKLEDPFQKHUNSTEE	Homo sapiens
1965	189874	Neuromedin U Receptor 2	LR28	422	KDKSLEADEGNANIGRPC	Homo sapiens
1966	189874	Neuromedin U Receptor 2	LR28	423	SQHDPQLPPAQRNIFLTC	Homo sapiens
1967	189874	Neuromedin U Receptor 2	LR28	487	ILHPFRAKLQSTRRALR	Homo sapiens
1968	189884	G Protein-Coupled Receptor Ls189884	LR27	415	CKKRGTKTQNLRNQIRSK	Homo sapiens
1969	189884	G Protein-Coupled Receptor Ls189884	LR27	418	EKPSSPSSGKGKTEKAE	Homo sapiens
1970	189884	G Protein-Coupled Receptor Ls189884	LR27	419	PSVQDNDPIPWEHEDQETGE	Homo sapiens
1971	189884	G Protein-Coupled Receptor Ls189884	LR27	486	KKPPTVSESQETPAGNSEG	Homo sapiens
1972	189884	G Protein-Coupled Receptor Ls189884	LR27	1832	LVMSEEFREGKGVWK	Homo sapiens
1973	189884	G Protein-Coupled Receptor Ls189884	LR27	1833	GLPDKV/PSPEPASIPEK	Homo sapiens
1974	189884	G Protein-Coupled Receptor Ls189884	LR27	1834	PDVEQFWHERDTVPSVQ	Homo sapiens
1975	189884	G Protein-Coupled Receptor Ls189884	LR27	1835	RHHEGVEMCLVDVPAVAEE	Homo sapiens
1976	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1685	RVPQTGPGSTASGVPE	Homo sapiens
1977	189895	G Protein-Coupled	AAK12637.1	1686	ETPRQRSESLSSRSTMVTS	Homo sapiens

1778	189895	Receptor GPR61 G Protein-Coupled Receptor GPR61	AAK12637.1	1687	SSGAPQITPHRTFGGK	Homo sapiens
1779	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1688	KPAPEEELRLPSREGSIEE	Homo sapiens
1780	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1689	CPSESWVRPLPSPKQE	Homo sapiens
1781	189900	Sphingolipid Receptor Edg8	LR1	312	TGKLRGARYQPGAGLRAD	Homo sapiens
1782	189900	Sphingolipid Receptor Edg8	LR1	316	ALERSLTMARRGAPVSS	Homo sapiens
1783	189900	Sphingolipid Receptor Edg8	LR1	317	DGSFSGSERSSPQRDGLD	Homo sapiens
1784	189900	Sphingolipid Receptor Edg8	LR1	318	CGRDPSSGQQSASAAEASG	Homo sapiens
1785	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2266	ASRKAEAIGKLVQGEVS	Homo sapiens
1786	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2270	SCLSYRVGTKPSASLR	Homo sapiens
1787	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2271	RVDYLLHETWRFGAAC	Homo sapiens
1788	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2272	HQSRALLGLTRGRQGPVSD	Homo sapiens
1789	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2273	CIHTRPWTSNTVFLVSL	Homo sapiens
1790	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2274	RGRQGPVDESSYQPSR	Homo sapiens
1791	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2108	IDRYLIKYPFREHLLQKKE	Homo sapiens
1792	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2109	TDNGTTCNDFASSGDPN	Homo sapiens
1793	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2110	FLKQRNRQVATAUPL	Homo sapiens
1794	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2111	RNVRIASRLGSWKQYQC	Homo sapiens
1795	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2112	GDHFRDMLMNQLRHNFKS	Homo sapiens

1996	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1721	CVAFFPLAVGNPDQLQIPSR	Homo sapiens
1997	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1722	NTLRHNALRIHSYPEGIC	Homo sapiens
1998	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1723	QASKLGLMISLQRPFQMSID	Homo sapiens
1999	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1724	DMMPKSKFLPQLPGHTKRR	Homo sapiens
2000	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1715	QNLKDPVQIKIKHTRTQE	Homo sapiens
2001	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1716	KNKSGGWNTSGCVAHRD	Homo sapiens
2002	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1717	RNNNEVYGKESYGKEKGDE	Homo sapiens
2003	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1718	CGRNGKRSNRTLREEVLR	Homo sapiens
2004	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1719	TSKSKSSSTTVFKRNSHTD	Homo sapiens
2005	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1720	DKSLKLAHADGDQTS	Homo sapiens
2006	190026	G Protein-Coupled Receptor JEG18	LR24	407	LFPLLRSDDTGPNRTKC	Homo sapiens
2007	190026	G Protein-Coupled Receptor JEG18	LR24	408	QDKYPMAQDLGEKQKALK	Homo sapiens
2008	190026	G Protein-Coupled Receptor JEG18	LR24	409	SFPLDFLVKSNEIKSC	Homo sapiens
2009	190026	G Protein-Coupled Receptor JEG18	LR24	410	RRRLSRQDLHDSIQIHAK	Homo sapiens
2010	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1725	KGEAKLDSRAKDVLTITQE	Homo sapiens
2011	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1727	DHKEQPIVTENAERQLVWKD	Homo sapiens
2012	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1728	EDFEEQTLTLFLDGERERK	Homo sapiens
2013	190031	G Protein-Coupled	AAD55586.1	1729	EGKEGDYIRIPERLLDVQD	Homo sapiens

2014	190168	Receptor VLGR1	AAF27278.1	324	SEAYADGIEGYDILVACSSS	Homo sapiens
2015	190168	G Protein-Coupled Receptor GPR58	AAF27278.1	326	NNLRNQNNGVKKDKKAAK	Homo sapiens
2016	190168	G Protein-Coupled Receptor GPR58	AAF27278.1	379	DPFLNFSTPVVLFDAIT	Homo sapiens
2017	190168	G Protein-Coupled Receptor GPR58	AAF27278.1	380	GKIFSSCFHNTILCMQKE	Homo sapiens
2018	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	327	CPKFVNKILSSHQPLFS	Homo sapiens
2019	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	328	KQHARVISHVPENTKGAVKK	Homo sapiens
2020	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	329	ENTKGAVKKHLSKKKDRKA	Homo sapiens
2021	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	330	CKFHTSFDMMRLTSI	Homo sapiens
2022	190188	G Protein-Coupled Receptor LGR6	LR36	439	ENHDQDLDELQLEMEDSKP	Homo sapiens
2023	190188	G Protein-Coupled Receptor LGR6	LR36	440	NPHFRDDLRLRPRAGDS	Homo sapiens
2024	190188	G Protein-Coupled Receptor LGR6	LR36	442	EDLHLDDEESKRPLGLLAR	Homo sapiens
2025	190188	G Protein-Coupled Receptor LGR6	LR36	621	DSGPLAYAAAGELEKSSC	Homo sapiens
2026	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1836	CAARRQHALLYNVKRRHSL	Homo sapiens
2027	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1837	DGSLKAKEGSTGTSSESV	Homo sapiens
2028	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1838	CSIDLGEDGMEFGEDDIN	Homo sapiens
2029	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1839	SEDDVEAVNIPESLPSS	Homo sapiens
2030	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1840	MHKTIKKEIQDMLKKFFC	Homo sapiens
2031	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1841	KEDSHPDLPGTGGTEG	Homo sapiens
2032	190418	Inflammation-Related G Protein-Coupled Receptor	LR8	343	RQVVKRAAQALDQYKLRQAS	Homo sapiens

2033	190418	EX33 Inflammation-Related G Protein-Coupled Receptor	LR8	344	RTDEAMPGRFQELDSRLASG	Homo sapiens
2034	190418	EX33 Inflammation-Related G Protein-Coupled Receptor	LR8	345	DSSEVGDQINSKRAKQMAEK	Homo sapiens
2035	190418	EX33 Inflammation-Related G Protein-Coupled Receptor	LR8	346	KAQPIKGARRAPDSSEFGK	Homo sapiens
2036	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2716	RRKSNFRLRGYSTGKT	Homo sapiens
2037	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2717	RRQKSSVNYLLALAAAD	Homo sapiens
2038	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2719	CFLTSPYWWPNWIT	Homo sapiens
2039	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2725	CSIFFILNSIIVYKLR	Homo sapiens
2040	190421	MrgX1 G Protein-Coupled Receptor	AAK91804.1	2754	GRUYSLLSFSIPH	Homo sapiens
2041	190421	MrgX1 G Protein-Coupled Receptor	AAK91804.1	2755	FELFLWIHVDRE	Homo sapiens
2042	190421	MrgX1 G Protein-Coupled Receptor	AAK91804.1	2756	MDPTISTLDTLTP	Homo sapiens
2043	190427	Cysteinyl Leukotriene CYSLT2 Receptor	LR49	471	ASSIMLLDSGSEQNGSVTSC	Homo sapiens
2044	190427	Cysteinyl Leukotriene CYSLT2 Receptor	LR49	472	RVLLKVEVPESGLRVSHRK	Homo sapiens
2045	190427	Cysteinyl Leukotriene CYSLT2 Receptor	LR49	473	KDRLKSALRKGHPQKATKC	Homo sapiens
2046	190427	Cysteinyl Leukotriene CYSLT2 Receptor	LR49	512	MEPNGTFSNNSRNC	Homo sapiens
2047	190427	Cysteinyl Leukotriene CYSLT2 Receptor	NP_065110.1	2253	CTIENFKREFFPIVYLIF	Homo sapiens
2048	190427	Cysteinyl Leukotriene CYSLT2 Receptor	NP_065110.1	2254	GVLGNGLSIYFLQPYK	Homo sapiens
2049	190427	Cysteinyl Leukotriene CYSLT2 Receptor	NP_065110.1	2255	ADWYLRGSNWIFGDLC	Homo sapiens
2050	190427	Cysteinyl Leukotriene CYSLT2 Receptor	NP_065110.1	2256	FRLLHVTSIRSAWILC	Homo sapiens

2051	190427	Receptor	Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2257	CGIIWILUMASSIMILD ₅ SGS	Homo sapiens
2052	190427	Receptor	Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2258	CLELNLYKIAKLQTMN ₅ YIAL	Homo sapiens
2053	190427	Receptor	Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2260	VSHRKALTIHIIIL ₅ IFLC	Homo sapiens
2054	190427	Receptor	Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2261	CFLPYHILRTVHLTW ₅ KVGL	Homo sapiens
2055	190427	Receptor	Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2262	CKDRLHKALVITL ₅ ALA	Homo sapiens
2056	190427	Receptor	Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2263	YFAGENFKDRLKSAL ₅ RKG	Homo sapiens
2057	190427	Receptor	Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2264	HPQKAKTKCVFPV ₅ VWL ₅ RKE	Homo sapiens
2058	190437	G Protein-Coupled Receptor C ₅ L ₂	LR31		429	DSVSYEYGDYSDLS ₅ DRPVDC	Homo sapiens
2059	190437	G Protein-Coupled Receptor C ₅ L ₂	LR31		430	RESQGGQDESVD ₅ SKSTSHD	Homo sapiens
2060	190437	G Protein-Coupled Receptor C ₅ L ₂	LR31		431	PSAIYRRLHQEHF ₅ PARLQC	Homo sapiens
2061	190437	G Protein-Coupled Receptor C ₅ L ₂	LR31		432	CHWALRESGGQDES ₅ VDSKKS	Homo sapiens
2062	190437	G Protein-Coupled Receptor C ₅ L ₂	NP_060955.1		2818	MGNDSVSYEYGDY ₅ SDLS ₅ DRPVDC	Homo sapiens
2063	190438	G Protein-Coupled Receptor Ls190438	ENSP00000080322		2585	TERLKIRWHTSDN ₅ QVRPQAC	Homo sapiens
2064	190484	G Protein-Coupled Receptor Ls190484	LR33		434	EADLGATGHRPRT ₅ ELDDED	Homo sapiens
2065	190484	G Protein-Coupled Receptor Ls190484	LR33		435	RTCHRRQQQPAAC ₅ RGFARVAR	Homo sapiens
2066	190484	G Protein-Coupled Receptor Ls190484	LR33		436	EERPGSFTPEPT ₅ QLDSEG	Homo sapiens
2067	190484	G Protein-Coupled Receptor Ls190484	LR33		437	RSDPTAQPLNPT ₅ AQ ₅ PQSD	Homo sapiens
2068	190595	G Protein-Coupled Receptor SH120	NP_057418.1		1730	RNVTDIDILAL ₅ ERRLLQ	Homo sapiens
2069	190595	G Protein-Coupled Receptor SH120	NP_057418.1		1731	KKKRMAMARRIM ₅ FQKGE	Homo sapiens

2070	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1732	KSVTTSASGSENILUQQE	Homo sapiens
2071	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1733	EVDAAEELSRQLFLETAD	Homo sapiens
2072	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1734	DRVGKIDPVTGIEIT	Homo sapiens
2073	190599	G Protein-Coupled Receptor GPRC5B	O75205	411	VRLPFIKEKEKSPVGLH	Homo sapiens
2074	190599	G Protein-Coupled Receptor GPRC5B	O75205	412	DEHNAALRTAGFPNGSLGKR	Homo sapiens
2075	190599	G Protein-Coupled Receptor GPRC5B	O75205	413	GKRPSGSLGKRPSAPFRSNV	Homo sapiens
2076	190599	G Protein-Coupled Receptor GPRC5B	O75205	414	SQPRMIRETAFEEDVQLPR	Homo sapiens
2077	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	542	GDPAIYQSLKAQNAYSRHC	Homo sapiens
2078	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	543	PFSHSSYTVRSKKIFLSKL	Homo sapiens
2079	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	619	GKILLNLTLMRRKNTCQN	Homo sapiens
2080	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	620	EEVTILVQAIRITSYMNE	Homo sapiens
2081	190623	Melanopsin	AAF24978.1	2137	CKNGESLWQRQLQSE	Homo sapiens
2082	190623	Melanopsin	AAF24978.1	2138	RHSRPVPSYRSTHRS	Homo sapiens
2083	190623	Melanopsin	AAF24978.1	2139	TSHTSNLSWISIRRRQE	Homo sapiens
2084	190623	Melanopsin	AAF24978.1	2140	DLEAKAPPRPQGHEAET	Homo sapiens
2085	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1735	KLQRRPVAVDVLLNLIASD	Homo sapiens
2086	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1736	KTRPRLGQAGLVSVAC	Homo sapiens
2087	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1737	EFSGDISHSQGTNGTC	Homo sapiens
2088	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1738	SRLVWILGRGGSHRRQRR	Homo sapiens
2089	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1739	GQWQQESSMELKEQKGG	Homo sapiens
2090	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1740	EEQRADRPAAERTSEHSQGC	Homo sapiens
2091	190627	G Protein-Coupled	NP_005295.1	2569	MDTGPDQSYFSGNHWVFVS	Homo sapiens

2092	190701	Receptor GPR41 & GPR42 C-C Chemokine Receptor 11	AAF61299.1	1441	VAIAYYKKQRTKTDV	Homo sapiens
2093	190701	C-C Chemokine Receptor 11	AAF61299.1	1442	VAVTKVPSQSGVGKPCWII	Homo sapiens
2094	190701	C-C Chemokine Receptor 11	AAF61299.1	1443	CNMSKRMDIAIQVTESI	Homo sapiens
2095	190701	C-C Chemokine Receptor 11	AAF61299.1	1444	RQSVVEFFDSEGPTEP	Homo sapiens
2096	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1741	GHPPGSGGAESADTEARVR	Homo sapiens
2097	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1742	HSVASALKSHRTRGHGRGDC	Homo sapiens
2098	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1743	KGGAAVAGGRPTGASARR	Homo sapiens
2099	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1744	CLVRREFRKALKSLLWR	Homo sapiens
2100	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1745	RPFTATTKPEHEDQGLQ	Homo sapiens
2101	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	339	AFPPVLDVGTYSFIREEDQC	Homo sapiens
2102	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	340	HDRRKMKPVQFVAASQN	Homo sapiens
2103	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	341	RRRLVLDEFKMEKRISR	Homo sapiens
2104	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	342	LRRCFSTLLYCRKSRLPRE	Homo sapiens
2105	190725	G Protein-Coupled Receptor GPR26	LR26	554	PLTLAGVVARQPAGDRLC	Homo sapiens
2106	190725	G Protein-Coupled Receptor GPR26	LR26	555	CSRRPDERLRFAVFTGA	Homo sapiens
2107	190725	G Protein-Coupled Receptor GPR26	LR26	557	CKEILNRLLRHSIHSSG	Homo sapiens
2108	190725	G Protein-Coupled Receptor GPR26	LR26	567	CLEEQKRRRQRATKKIST	Homo sapiens
2109	190741	Sreb3	LR9	516	EPEEVSGALSPPSASAYVK	Homo sapiens
2110	190741	Sreb3	LR9	519	NGHAASRLLGMDEVKGEK	Homo sapiens
2111	190741	Sreb3	LR9	526	KKCLURTHAPCWGTGGAPAPR	Homo sapiens
2112	190741	Sreb3	LR9	527	VLMAATHAVV GKLLFEYR	Homo sapiens

2113	190742	G Protein-Coupled Receptor H7TBA62	LR23	550	RRAPGPPSDTFVFNALAD	Homo sapiens
2114	190742	G Protein-Coupled Receptor H7TBA62	LR23	551	QRRQRRRQDSRVVARSVR	Homo sapiens
2115	190742	G Protein-Coupled Receptor H7TBA62	LR23	552	RREPRQALAGTFRDLRSR	Homo sapiens
2116	190742	G Protein-Coupled Receptor H7TBA62	LR23	553	KQVGRRWVASNPRESRPS	Homo sapiens
2117	190743	G Protein-Coupled Receptor GPRC5D	LR32	558	KDCIESTGDYFLLCDAEGP	Homo sapiens
2118	190743	G Protein-Coupled Receptor GPRC5D	LR32	569	VENQELSRGTFLGDSGSR	Homo sapiens
2119	190743	G Protein-Coupled Receptor GPRC5D	LR32	570	GDSGSREVLLQEKQKKNHA	Homo sapiens
2120	190743	G Protein-Coupled Receptor GPRC5D	LR32	571	SMLLRGNPQFQRQPQWDDP	Homo sapiens
2121	190744	G Protein-Coupled Receptor GPRC5C	LR34	529	KVPSEELTSSSHGPPPTAR	Homo sapiens
2122	190744	G Protein-Coupled Receptor GPRC5C	LR34	532	RSGEGGPGQGNSSAGWAV	Homo sapiens
2123	190744	G Protein-Coupled Receptor GPRC5C	LR34	535	QDTKRSLLGTQVFFLLGT	Homo sapiens
2124	190744	G Protein-Coupled Receptor GPRC5C	LR34	538	KEQKGQSMFVENKAFSMDE	Homo sapiens
2125	190745	G Protein-Coupled Receptor LGR7	LR40	560	TATEIRNQVKKEMILAKR	Homo sapiens
2126	190745	G Protein-Coupled Receptor LGR7	LR40	561	NYRQRKSMDSKGQKTYAPS	Homo sapiens
2127	190745	G Protein-Coupled Receptor LGR7	LR40	565	SCSNLTVLVMRKKNKINHLN	Homo sapiens
2128	190745	G Protein-Coupled Receptor LGR7	LR40	566	DELDLGSNKIENLPPIFKD	Homo sapiens
2129	190748	GPCR Ls190748	LR47	546	QLSSPSRPTQKTLCSLR	Homo sapiens
2130	190748	GPCR Ls190748	LR47	547	DMLKIASMHSQQIRKMEHAG	Homo sapiens
2131	190748	GPCR Ls190748	LR47	548	AGGYRSRPTSPDFKALRTVS	Homo sapiens
2132	190748	GPCR Ls190748	LR47	549	RESSCHIVTSSSEFDG	Homo sapiens
2133	190748	GPCR Ls190748	LR47	1481	GVKKVLTSFLFLSARNC	Homo sapiens
2134	190748	GPCR Ls190748	LR47	1482	NSLLNPLIYAYWGKEVRLQ	Homo sapiens
2135	190749	G Protein-Coupled	LR48	467	RRAALRPPRPARGSLRSD	Homo sapiens

2136	190749	Receptor GPR62	LR48	468	RPVRLALGRLRRALPGPVR	Homo sapiens
2137	190749	G Protein-Coupled Receptor GPR62	LR48	510	DSRLSILPPLRPLPGGK	Homo sapiens
2138	190749	G Protein-Coupled Receptor GPR62	LR48	511	RPPEGPAVGPSEAPEQIPE	Homo sapiens
2139	190749	Receptor GPR62	LR48	2702	VVARRAALRPPRPA	Homo sapiens
2140	190749	G Protein-Coupled Receptor GPR62	LR48	2703	PSEAPEQIPELAGGR	Homo sapiens
2141	190749	G Protein-Coupled Receptor GPR62	LR48	2704	GPSEAPEQIPELAG	Homo sapiens
2142	190774	Histamine H4 Receptor	NP_067637.2	2235	PDNSTINLSLSTRVTLAFF	Homo sapiens
2143	190774	Histamine H4 Receptor	NP_067637.2	2237	VVDKNLRHRSSYFFLN	Homo sapiens
2144	190774	Histamine H4 Receptor	NP_067637.2	2240	LYIPHTLFEWDFGKEIC	Homo sapiens
2145	190774	Histamine H4 Receptor	NP_067637.2	2242	TQHTGVLKIVTLMVAV	Homo sapiens
2146	190774	Histamine H4 Receptor	NP_067637.2	2243	VNGPMILVSESWKDEGSEC	Homo sapiens
2147	190774	Histamine H4 Receptor	NP_067637.2	2244	CEPGFFSEWYLAITSFL	Homo sapiens
2148	190774	Histamine H4 Receptor	NP_067637.2	2245	AYFNMINIYWSLWKRDHLRC	Homo sapiens
2149	190774	Histamine H4 Receptor	NP_067637.2	2246	CGHSFRGRLSSRRSL	Homo sapiens
2150	190774	Histamine H4 Receptor	NP_067637.2	2247	IASKMGFSQSDSVALHQRE	Homo sapiens
2151	190774	Histamine H4 Receptor	NP_067637.2	2249	IVLSFYSSATGPKSVWYRIA	Homo sapiens
2152	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2085	IIRVTVPGKIGTVAC	Homo sapiens
2153	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2086	SPWTNDPKERINVAVA	Homo sapiens
2154	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2087	RIRELLQGMVKEIGIAVD	Homo sapiens
2155	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2088	TQISDTATNSTLPSAE	Homo sapiens
2156	190824	Formyl Peptide Receptor-like 2 (FPR2)	LR14	481	TEVPDSAQTSNTHITSAS	Homo sapiens
2157	190824	Formyl Peptide Receptor-like 2 (FPR2)	LR14	522	GDTAVERLNVFITMAKV	Homo sapiens
2158	190824	Formyl Peptide Receptor-like 2 (FPR2)	LR14	523	MSLAKRVMTGLWIFTI	Homo sapiens
2159	190824	Formyl Peptide Receptor-like 2 (FPR2)	LR14	525	LHFIIQFTVPMISITV	Homo sapiens

2160	190948	like 2 (FRL2)	NP_038475.1	1658	DELLEAPGDLETLRLQHC	Homo sapiens
2161	190948	EMR2 Hormone Receptor	NP_038475.1	1659	CVASHILDGLEDVLRGLSKN	Homo sapiens
2162	190948	EMR2 Hormone Receptor	NP_038475.1	1660	KSGDPGPSVAVGLVSPG	Homo sapiens
2163	190948	EMR2 Hormone Receptor	NP_038475.1	1661	SKGIRKLKTESEMHTLSS	Homo sapiens
2164	190948	EMR2 Hormone Receptor	NP_038475.1	1662	ELSLEVQKQVDRSVTLRQNG	Homo sapiens
2165	190948	EMR2 Hormone Receptor	NP_038475.1	1663	EPEKQMLLHETHQGLLDGGS	Homo sapiens
2166	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1492	KRMQKRSVTALMVNLALAD	Homo sapiens
2167	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1493	RPFVSQKLRTKAMARR	Homo sapiens
2168	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1494	ASYSDIGRRRLQARRFR	Homo sapiens
2169	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1495	LEGTGSEASSTRGGGS	Homo sapiens
2170	191039	Trace Amine Receptor 1 (TA1)	LR122	2039	RKALKMMLFGKIFQKDSRC	Homo sapiens
2171	191039	Trace Amine Receptor 1 (TA1)	LR122	2040	QIGLEMKNGISQSKERKAV	Homo sapiens
2172	191039	Trace Amine Receptor 1 (TA1)	LR122	2041	RIYLAKEGARLUSDANQK	Homo sapiens
2173	191039	Trace Amine Receptor 1 (TA1)	LR122	2042	ELNFKGAEIYKHHVHC	Homo sapiens
2174	191039	Trace Amine Receptor 1 (TA1)	LR122	2043	CVKNNWSNDVRASLYS	Homo sapiens
2175	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1569	SAEPPADWDGAGGSYRLRG	Homo sapiens
2176	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1571	GIVRRVRVSVKRVSVLN	Homo sapiens
2177	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1572	RNEEFRSVRSVLPGVGDA	Homo sapiens
2178	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1573	CEEEESWAGRRIPVSLLYSG	Homo sapiens
2179	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1651	CYLGIVRRVRVSVKRVSV	Homo sapiens
2180	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1544	KELYRSVVRTRGVGVKVP	Homo sapiens
2181	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1545	ILTNRQPRDKNVKKCS	Homo sapiens

2182	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1546	CPNSATSLSQDNRRKKEQDGG	Homo sapiens
2183	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1570	TTRPFKTSNPKNLLGAK	Homo sapiens
2184	191193	Trace Amine Receptor 3 (TA3)	LR88	1969	ANEEGIEELVVA	Homo sapiens
2185	191193	Trace Amine Receptor 3 (TA3)	LR88	2316	RKIESTASQAQSS	Homo sapiens
2186	191193	Trace Amine Receptor 3 (TA3)	LR88	2571	LVD AVIDAYMINFI	Homo sapiens
2187	191193	Trace Amine Receptor 3 (TA3)	LR88	2573	RTDSSITNLFSEEVET	Homo sapiens
2188	191196	G Protein-Coupled Receptor GPR80	IP_13092	1864	NASDFPDYAAAFGNCTDE	Homo sapiens
2189	191196	G Protein-Coupled Receptor GPR80	IP_13092	1865	TLTITSTNRTNRSACLD	Homo sapiens
2190	191196	G Protein-Coupled Receptor GPR80	IP_13092	1866	TLTHGLQTDSCUKGKARR	Homo sapiens
2191	191196	G Protein-Coupled Receptor GPR80	IP_13092	1867	RLLSISCSIQIHEA	Homo sapiens
2192	191196	G Protein-Coupled Receptor GPR80	IP_13092	1868	QQAVCSTVRCKVSGNLE	Homo sapiens
2193	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2749	QDIAEVDHSEGC	Homo sapiens
2194	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2750	RKQWRLQQPIKLA	Homo sapiens
2195	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2751	CSISINFPSFFTTVMTC	Homo sapiens
2196	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2752	QWFLILWIKDSDV	Homo sapiens
2197	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2575	AFLSDNTIEVRINRTLKK	Homo sapiens
2198	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2576	QETKNEFRNLKQISKC	Homo sapiens
2199	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2577	CNNKTHWAPVRSTM	Homo sapiens
2200	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2581	TKMAEYDLQNDVFIIPD	Homo sapiens
2201	193511	EGF-Like Module-Containing	AAK15076.1	1665	CQDITSSKTEGRKELQKIV	Homo sapiens

2202	193511	Mucin-Like Receptor EMR3 EGF-Like Module-Containing	AAK15076.1	1666	RDVESKVLETALKDPEQK	Homo sapiens
2203	193511	Mucin-Like Receptor EMR3 EGF-Like Module-Containing	AAK15076.1	1667	KIGNDSVAIETQAIDNC	Homo sapiens
2204	193511	Mucin-Like Receptor EMR3 EGF-Like Module-Containing	AAK15076.1	1668	CSEERKTFNLNVQMNSMDIR	Homo sapiens
2205	193511	Mucin-Like Receptor EMR3 EGF-Like Module-Containing	AAK15076.1	1669	EEMDKKQVVLNSQVWSAA	Homo sapiens
2206	193511	Mucin-Like Receptor EMR3 EGF-Like Module-Containing	AAK15076.1	1670	SKSVTLTFQHVVKMTPTSK	Homo sapiens
2207	193516	Mucin-Like Receptor EMR3 G Protein-Coupled	CAC21687.1	2142	CLLLPTAVIVFSYVKIIAK	Homo sapiens
2208	193516	Receptor dJ402H5.1 G Protein-Coupled	CAC21687.1	2144	RPDSIPQLSVVPTLLA	Homo sapiens
2209	193516	Receptor dJ402H5.1 G Protein-Coupled	CAC21687.1	2145	CQGTGGLKATKKKSLEG	Homo sapiens
2210	193516	Receptor dJ402H5.1 G Protein-Coupled	CAC21687.1	2146	RUHTVTVRKSSAVLE	Homo sapiens
2211	193516	Receptor dJ402H5.1 G Protein-Coupled	CAC21687.1	2620	PTAVIVFSYVKIIAKV	Homo sapiens
2212	193524	Receptor dJ402H5.1 Cadherin EGF LAG Seven- Pass G-Type Receptor 3	NP_001398.1	1947	KLQIRLREVTGHTDHYFSQD	Homo sapiens
2213	193524	Cadherin EGF LAG Seven- Pass G-Type Receptor 3	NP_001398.1	1948	CALQTWGSERRGLDTSKD	Homo sapiens
2214	193524	Cadherin EGF LAG Seven- Pass G-Type Receptor 3	NP_001398.1	2734	RGRRQSAARNRSGPPEQPNE	Homo sapiens
2215	193524	Cadherin EGF LAG Seven- Pass G-Type Receptor 3	NP_001398.1	2735	RNSRGPPEQPNEELG	Homo sapiens
2216	193524	Cadherin EGF LAG Seven- Pass G-Type Receptor 3	NP_001398.1	2736	AQVREDVRPHTVVLRL	Homo sapiens
2217	193524	Cadherin EGF LAG Seven- Pass G-Type Receptor 3	NP_001398.1	2742	QLDQVPSRHPSPRE	Homo sapiens

2218	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2744	LDLSLRSSNSREQLDQV	Homo sapiens
2219	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1903	REEHFMVDARNRSPLYSC	Homo sapiens
2220	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1904	PGPAPGGEAAADPRASRR	Homo sapiens
2221	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1905	CPRPSGSHKEAYSERPGGLL	Homo sapiens
2222	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1906	PSSGAPRPGRLPLRNGRVA	Homo sapiens
2223	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2018	FLGKNDIDIKTKKELVN	Homo sapiens
2224	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2019	QVYRDSKEKRDLRNFLK	Homo sapiens
2225	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2020	CERTKIWGTFKINERFTND	Homo sapiens
2226	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2021	SKYANGIEIQLKKAYER	Homo sapiens
2227	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2022	CIVVFIVRTERSLHAP	Homo sapiens
2228	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2023	KILALFWFDSREISFEAC	Homo sapiens
2229	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2024	CVHQDVMKLAYADTLP	Homo sapiens
2230	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2027	RFGNSLHPVIRVVMGD	Homo sapiens
2231	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2028	KTKQIRTRVLAMFKISC	Homo sapiens
2232	194743	FLJ14454	LR77	1855	KTDENEQDQSASVDMVFSP	Homo sapiens
2233	194743	FLJ14454	LR77	1856	KKDYQYPKSLDLSNVGC	Homo sapiens
2234	194743	FLJ14454	LR77	1857	KNLQTSDDGINNIDFNIN	Homo sapiens
2235	194743	FLJ14454	LR77	1858	SQNGNNPQWELDYRQEKIC	Homo sapiens
2236	194743	FLJ14454	LR77	1859	RPRLRVKMYNFLRSLPTLHE	Homo sapiens
2237	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1845	CNPSVPKQRVMKLTGM	Homo sapiens
2238	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1846	RLTRWRTRYKTIRINLG	Homo sapiens
2239	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1847	KDGVESCAFDLISPDDVL	Homo sapiens
2240	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1848	LSGNFQKRLPQIGRRATE	Homo sapiens

2241	194745	G Protein-Coupled Receptor SLI/MCH2	AAK32193.1	1849	TIIRSRKKTVPDIYIC	Homo sapiens
2242	194745	G Protein-Coupled Receptor SLI/MCH2	AAK32193.1	1907	RRATEKEINNMGNLTKSHF	Homo sapiens
2243	194756	Chemokine Receptor FKSG80/GPR81	AAK29071.1	2089	CRIEGDTISQVMPPLIVA	Homo sapiens
2244	194756	Chemokine Receptor FKSG80/GPR81	AAK29071.1	2090	RRHWAFGDIPCRVGLFTL	Homo sapiens
2245	194756	Chemokine Receptor FKSG80/GPR81	AAK29071.1	2091	CESFIMESANGWHDIM	Homo sapiens
2246	194756	Chemokine Receptor FKSG80/GPR81	AAK29071.1	2092	CSFKIVWSLRRRQQLARQAR	Homo sapiens
2247	194756	Chemokine Receptor FKSG80/GPR81	AAK29071.1	2093	RRRQQLARQARMKKATR	Homo sapiens
2248	194756	Chemokine Receptor FKSG80/GPR81	AAK29071.1	2094	TVPSACDPSVHGALH	Homo sapiens
2249	194756	Chemokine Receptor FKSG80/GPR81	AAK29071.1	2095	CSLKPQPGHSGTKQRPEEM	Homo sapiens
2250	194756	Chemokine Receptor FKSG80/GPR81	AAK29071.1	2096	CISVANSFQSGSDGGQWD	Homo sapiens
2251	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2034	RTRKQHSSEATNSSNRVFC	Homo sapiens
2252	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2035	RVISQISADNYKIHGDPSA	Homo sapiens
2253	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2036	TSSSARTSNAKPFHSD	Homo sapiens
2254	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2037	NGTRPGMASTKLSPWD	Homo sapiens
2255	194858	G Protein-Coupled Receptor Ls194858	LR84	1933	LGIAWDRRLRSPAGC	Homo sapiens
2256	194858	G Protein-Coupled Receptor Ls194858	LR84	1934	GERYMAVLRPLQPPGS	Homo sapiens
2257	194858	G Protein-Coupled Receptor Ls194858	LR84	1935	CRDEPSALARALTWRQAR	Homo sapiens
2258	194858	G Protein-Coupled Receptor Ls194858	LR84	1936	AAQRCLQGLWGRASRD	Homo sapiens
2259	194858	G Protein-Coupled Receptor Ls194858	LR84	1937	RDSPGPSIAYHPSSQSSVD	Homo sapiens
2260	194878	MigX3 G Protein-Coupled	AAK91806.1	2748	ALFSRIHLDWKVLF	Homo sapiens

2261	194903	Receptor G Protein-Coupled Receptor GPCR83	ENSP00000198236	1991	CIAFKDIMPFSQVGVDER	Homo sapiens
2262	194903	G Protein-Coupled Receptor GPCR83	ENSP00000198236	1992	KAFEEAYARADKKAPRPC	Homo sapiens
2263	194903	G Protein-Coupled Receptor GPCR83	ENSP00000198236	1993	ETKIQWHGKDNQVPKSVCS	Homo sapiens
2264	194903	G Protein-Coupled Receptor GPCR83	ENSP00000198236	1994	CSYLGKOLPENVNEAK	Homo sapiens
2265	194904	WO00343334-hFB41A	LR114	2011	SDYDMPLDEDEDVTNS	Homo sapiens
2266	194904	WO00343334-hFB41A	LR114	2014	NPHGAHATSPFNFSY	Homo sapiens
2267	194905	G Protein-Coupled Receptor MGC7035	LR112	1986	ERALPTYMASVYNTRHVC	Homo sapiens
2268	194905	G Protein-Coupled Receptor MGC7035	LR112	1987	CAKMQNAEAAADATLVF	Homo sapiens
2269	194905	G Protein-Coupled Receptor MGC7035	LR112	1988	DRDTGRLEPSAHLRLVATVC	Homo sapiens
2270	194905	G Protein-Coupled Receptor MGC7035	LR112	1989	RYMNQSFPSKLRLMKKLPC	Homo sapiens
2271	194907	G Protein-Coupled Receptor 14273	LR116	2003	CARAAAGDAPLRSLEQANRTR	Homo sapiens
2272	194907	G Protein-Coupled Receptor 14273	LR116	2004	VISYSKILQTTKASRKRL	Homo sapiens
2273	194907	G Protein-Coupled Receptor 14273	LR116	2005	TVSLAYSRSHQIRVSQQD	Homo sapiens
2274	194907	G Protein-Coupled Receptor 14273	LR116	2006	CTWFPEKGAILDTSVKRND	Homo sapiens
2275	194908	G Protein-coupled Receptor Gpcrb4	LR117	2007	TYGRDNGQLLGERVARRDIC	Homo sapiens
2276	194908	G Protein-coupled Receptor Gpcrb4	LR117	2008	QETLPTLQPNQNMITSEERQR	Homo sapiens
2277	194908	G Protein-coupled Receptor Gpcrb4	LR117	2009	RTSQSYTCNQECDNCLNAT	Homo sapiens
2278	194908	G Protein-coupled Receptor Gpcrb4	LR117	2010	RPQSHPRTPDDPKTIIVSC	Homo sapiens
2279	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	2312	VARRQAKKIENTGSKT	Homo sapiens
2280	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	2313	KVIVTGQVLKNSA	Homo sapiens

2281	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	2318	MSSNSSLLVAVQLC	Homo sapiens
2282	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2307	IAKQQAIKIETTSSKV	Homo sapiens
2283	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2314	MTSNFSQPVVQLC	Homo sapiens
2284	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2319	KULSGDVLKAS	Homo sapiens
2285	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2570	SGDVLKASSSTISLFLE	Homo sapiens
2286	194989	MrgX4 G Protein-Coupled Receptor	AAK91807.1	2727	QDKPEVDKGGGQLPEESL	Homo sapiens
2287	194989	MrgX4 G Protein-Coupled Receptor	AAK91807.1	2728	LINISHLIRKILVS	Homo sapiens
2288	194989	MrgX4 G Protein-Coupled Receptor	AAK91807.1	2729	MDPTVPVFGTKL	Homo sapiens
2289	195015	G Protein-Coupled Receptor GPR82	AAL26482	2706	RYATLMQKDSQETT	Homo sapiens
2290	195015	G Protein-Coupled Receptor GPR82	AAL26482	2707	KIFYGHLLKKFRQPNF	Homo sapiens
2291	195015	G Protein-Coupled Receptor GPR82	AAL26482	2708	YSVIEATEGEESLC	Homo sapiens
2292	195015	G Protein-Coupled Receptor GPR82	AAL26482	2715	CTSIMEKDLTYSSVKR	Homo sapiens

SEQ ID NO:	LS_ID	Gene	Antibody Company Name
1	127	5-HT1A Receptor	Chemicon
1	127	5-HT1A Receptor	Research Diagnostics
1	127	5-HT1A Receptor	Santa Cruz
3	128	5-HT1B Receptor	Chemicon
3	128	5-HT1B Receptor	Research Diagnostics
3	128	5-HT1B Receptor	Santa Cruz
5	129	5-HT1D Receptor	Research Diagnostics
5	129	5-HT1D Receptor	Santa Cruz
11	132	5-HT2A Receptor	Calbiochem
11	132	5-HT2A Receptor	Research Diagnostics
13	133	5-HT2B Receptor	Research Diagnostics
15	134	5-HT2C Receptor	Research Diagnostics
15	134	5-HT2C Receptor	Santa Cruz
21	139	5-HT7 Receptor	Calbiochem
23	272	Adenosine A1 Receptor	Alpha Diagnostic Int.
23	272	Adenosine A1 Receptor	Calbiochem
23	272	Adenosine A1 Receptor	Santa Cruz
25	273	Adenosine A2a Receptor	Alpha Diagnostic Int.
25	273	Adenosine A2a Receptor	Calbiochem
25	273	Adenosine A2a Receptor	Chemicon
25	273	Adenosine A2a Receptor	Santa Cruz
27	274	Adenosine A2b Receptor	Alpha Diagnostic Int.
27	274	Adenosine A2b Receptor	Chemicon
27	274	Adenosine A2b Receptor	Santa Cruz
29	275	Adenosine A3 Receptor	Alpha Diagnostic Int.
29	275	Adenosine A3 Receptor	Santa Cruz
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Alpha Diagnostic Int.
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Chemicon
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Research Diagnostics
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Santa Cruz
35	377	Alpha 1b-adrenoceptor	Research Diagnostics
35	377	Alpha 1b-adrenoceptor	Santa Cruz
37	379	Alpha 1c-adrenoceptor	Research Diagnostics
37	379	Alpha 1c-adrenoceptor	Santa Cruz
39	387	Alpha 2a-adrenoceptor	Calbiochem
39	387	Alpha 2a-adrenoceptor	Santa Cruz
41	388	Alpha 2b-adrenoceptor	Research Diagnostics
41	388	Alpha 2b-adrenoceptor	Santa Cruz
43	389	Alpha 2c-adrenoceptor	Research Diagnostics
43	389	Alpha 2c-adrenoceptor	Santa Cruz
45	599	Bradykinin B1 Receptor	Research Diagnostics
49	635	Beta-1 adrenoceptor	Calbiochem
49	635	Beta-1 adrenoceptor	Research Diagnostics

49	635	Beta-1 adrenoceptor	Santa Cruz
51	640	Beta-2 adrenoceptor	Research Diagnostics
51	640	Beta-2 adrenoceptor	Santa Cruz
53	643	Beta-3 adrenoceptor	Alpha Diagnostic Int.
53	643	Beta-3 adrenoceptor	Chemicon
53	643	Beta-3 adrenoceptor	Research Diagnostics
53	643	Beta-3 adrenoceptor	Santa Cruz
57	692	Bombesin Receptor Subtype-3	Alpha Diagnostic Int.
57	692	Bombesin Receptor Subtype-3	Chemicon
59	729	CXC Chemokine Receptor 5	Research Diagnostics
59	729	CXC Chemokine Receptor 5	Santa Cruz
61	735	C-C Chemokine Receptor 1	Calbiochem
61	735	C-C Chemokine Receptor 1	Capralogics
61	735	C-C Chemokine Receptor 1	Chemicon
61	735	C-C Chemokine Receptor 1	Research Diagnostics
61	735	C-C Chemokine Receptor 1	Santa Cruz
63	737	C-C Chemokine Receptor 3	Research Diagnostics
63	737	C-C Chemokine Receptor 3	Santa Cruz
65	738	C-C Chemokine Receptor 4	Capralogics
65	738	C-C Chemokine Receptor 4	Research Diagnostics
65	738	C-C Chemokine Receptor 4	Santa Cruz
67	741	C-C Chemokine Receptor 7	Research Diagnostics
67	741	C-C Chemokine Receptor 7	Santa Cruz
69	742	C-C Chemokine Receptor 8	Chemicon
70	742	C-C Chemokine Receptor 8	Chemicon
71	742	C-C Chemokine Receptor 8	Chemicon
73	752	CXC Chemokine Receptor 3	Research Diagnostics
73	752	CXC Chemokine Receptor 3	Santa Cruz
73	752	CXC Chemokine Receptor 3	Zymed
75	753	CXC Chemokine Receptor 4	Biosource
75	753	CXC Chemokine Receptor 4	Calbiochem
75	753	CXC Chemokine Receptor 4	Capralogics
75	753	CXC Chemokine Receptor 4	Chemicon
75	753	CXC Chemokine Receptor 4	eBioscience
75	753	CXC Chemokine Receptor 4	Research Diagnostics
75	753	CXC Chemokine Receptor 4	Santa Cruz
77	755	Complement Component 3a Receptor 1	Chemokine.com
79	758	Complement Component 5a Receptor 1	Santa Cruz
83	832	Cannabinoid Receptor 1	Alpha Diagnostic Int.
83	832	Cannabinoid Receptor 1	Biosource
83	832	Cannabinoid Receptor 1	Calbiochem
83	832	Cannabinoid Receptor 1	Cayman
83	832	Cannabinoid Receptor 1	Chemicon
83	832	Cannabinoid Receptor 1	Santa Cruz
85	833	Cannabinoid Receptor 2	Alpha Diagnostic Int.
85	833	Cannabinoid Receptor 2	Calbiochem
85	833	Cannabinoid Receptor 2	Cayman
85	833	Cannabinoid Receptor 2	Chemicon
85	833	Cannabinoid Receptor 2	Santa Cruz
97	1240	Dopamine Receptor D1	Alpha Diagnostic Int.
97	1240	Dopamine Receptor D1	Biogenesis

97	1240	Dopamine Receptor D1	Calbiochem
97	1240	Dopamine Receptor D1	Chemicon
97	1240	Dopamine Receptor D1	FabGennix through Abcam
97	1240	Dopamine Receptor D1	Research Diagnostics
97	1240	Dopamine Receptor D1	Santa Cruz
99	1241	Dopamine Receptor D5	Alpha Diagnostic Int.
99	1241	Dopamine Receptor D5	Biogenesis
99	1241	Dopamine Receptor D5	Calbiochem
99	1241	Dopamine Receptor D5	Chemicon
99	1241	Dopamine Receptor D5	Santa Cruz
101	1242	Dopamine Receptor D2	Alpha Diagnostic Int.
101	1242	Dopamine Receptor D2	Biogenesis
101	1242	Dopamine Receptor D2	Calbiochem
101	1242	Dopamine Receptor D2	Chemicon
101	1242	Dopamine Receptor D2	DPC Biermann/Acris
101	1242	Dopamine Receptor D2	FabGennix through Abcam
101	1242	Dopamine Receptor D2	Research Diagnostics
101	1242	Dopamine Receptor D2	Santa Cruz
103	1243	Dopamine Receptor D3	Alpha Diagnostic Int.
103	1243	Dopamine Receptor D3	Biogenesis
103	1243	Dopamine Receptor D3	Calbiochem
103	1243	Dopamine Receptor D3	Chemicon
103	1243	Dopamine Receptor D3	Research Diagnostics
103	1243	Dopamine Receptor D3	Santa Cruz
103	1243	Dopamine Receptor D3	Zymed
105	1244	Dopamine Receptor D4	Alpha Diagnostic Int.
105	1244	Dopamine Receptor D4	Biogenesis
105	1244	Dopamine Receptor D4	Calbiochem
105	1244	Dopamine Receptor D4	Chemicon
105	1244	Dopamine Receptor D4	DPC Biermann/Acris
105	1244	Dopamine Receptor D4	Santa Cruz
107	1267	Opioid Receptor, delta 1 (OPRD1)	Biosource
107	1267	Opioid Receptor, delta 1 (OPRD1)	Calbiochem
107	1267	Opioid Receptor, delta 1 (OPRD1)	DPC Biermann/Acris
107	1267	Opioid Receptor, delta 1 (OPRD1)	Santa Cruz
113	1486	Endothelin B Receptor	Biogenesis
113	1486	Endothelin B Receptor	Capralogics
113	1486	Endothelin B Receptor	DPC Biermann/Acris
113	1486	Endothelin B Receptor	Fitzgerald Industries Int.
113	1486	Endothelin B Receptor	Research Diagnostics
115	1488	Endothelin A Receptor	Biogenesis
115	1488	Endothelin A Receptor	Capralogics
115	1488	Endothelin A Receptor	DPC Biermann/Acris
115	1488	Endothelin A Receptor	Fitzgerald Industries Int.
115	1488	Endothelin A Receptor	Research Diagnostics
117	1598	Calcium-Sensing Receptor (CASR)	Chemicon
117	1598	Calcium-Sensing Receptor (CASR)	DPC Biermann/Acris

121	1681	Follicle Stimulating Hormone Receptor	Biogenesis
121	1681	Follicle Stimulating Hormone Receptor	DPC Biermann/Acris
121	1681	Follicle Stimulating Hormone Receptor	Santa Cruz
125	1762	Galanin Receptor GalR1	Alpha Diagnostic Int.
135	1925	Gonadotropin-Releasing Hormone Receptor	Biocarta
135	1925	Gonadotropin-Releasing Hormone Receptor	Lab Vision Corporation/NeoMarkers
135	1925	Gonadotropin-Releasing Hormone Receptor	Research Diagnostics
135	1925	Gonadotropin-Releasing Hormone Receptor	Santa Cruz
139	1951	Growth Hormone Secretagogue Receptor	Santa Cruz
143	2120	Histamine H1 Receptor	Alpha Diagnostic Int.
143	2120	Histamine H1 Receptor	Chemicon
145	2121	Histamine H2 Receptor	Alpha Diagnostic Int.
145	2121	Histamine H2 Receptor	Chemicon
147	2783	Opioid Receptor, kappa 1 (OPRK1)	Biosource
147	2783	Opioid Receptor, kappa 1 (OPRK1)	Calbiochem
147	2783	Opioid Receptor, kappa 1 (OPRK1)	DPC Biermann/Acris
147	2783	Opioid Receptor, kappa 1 (OPRK1)	Santa Cruz
151	2976	Lysophosphatidic Acid Receptor Edg2	Exalpha Biologicals
155	3057	Melanocortin 3 Receptor (MC3R)	Alpha Diagnostic Int.
155	3057	Melanocortin 3 Receptor (MC3R)	Chemicon
155	3057	Melanocortin 3 Receptor (MC3R)	Research Diagnostics
155	3057	Melanocortin 3 Receptor (MC3R)	Santa Cruz
157	3058	Melanocortin 4 Receptor (MC4R)	Alpha Diagnostic Int.
157	3058	Melanocortin 4 Receptor (MC4R)	Chemicon
157	3058	Melanocortin 4 Receptor (MC4R)	Research Diagnostics
157	3058	Melanocortin 4 Receptor (MC4R)	Santa Cruz
159	3059	Melanocortin 5 Receptor (MC5R)	Alpha Diagnostic Int.
159	3059	Melanocortin 5 Receptor (MC5R)	Chemicon
159	3059	Melanocortin 5 Receptor (MC5R)	Research Diagnostics

159	3059	Melanocortin 5 Receptor (MC5R)	Santa Cruz
161	3061	Melanocortin 1 Receptor (MC1R)	Alpha Diagnostic Int.
161	3061	Melanocortin 1 Receptor (MC1R)	Chemicon
161	3061	Melanocortin 1 Receptor (MC1R)	Research Diagnostics
161	3061	Melanocortin 1 Receptor (MC1R)	Santa Cruz
169	3093	Metabotropic Glutamate Receptor 1	Chemicon
171	3094	Metabotropic Glutamate Receptor 2	Chemicon
173	3095	Metabotropic Glutamate Receptor 3	Chemicon
175	3096	Metabotropic Glutamate Receptor 4	Zymed
177	3097	Metabotropic Glutamate Receptor 5	Chemicon
183	3100	Metabotropic Glutamate Receptor 8	Chemicon
185	3212	Opioid mu-type Receptor	Biosource
185	3212	Opioid mu-type Receptor	Calbiochem
185	3212	Opioid mu-type Receptor	Chemicon
185	3212	Opioid mu-type Receptor	DPC Biermann/Acris
185	3212	Opioid mu-type Receptor	Santa Cruz
187	3223	Muscarinic acetylcholine Receptor M1	Biogenesis
187	3223	Muscarinic acetylcholine Receptor M1	Calbiochem
187	3223	Muscarinic acetylcholine Receptor M1	Chemicon
187	3223	Muscarinic acetylcholine Receptor M1	Santa Cruz
189	3224	Muscarinic acetylcholine Receptor M2	Biogenesis
189	3224	Muscarinic acetylcholine Receptor M2	Calbiochem
189	3224	Muscarinic acetylcholine Receptor M2	Chemicon
189	3224	Muscarinic acetylcholine Receptor M2	Santa Cruz
191	3226	Muscarinic acetylcholine Receptor M4	Biogenesis
192	3226	Muscarinic acetylcholine Receptor M4	Biogenesis
191	3226	Muscarinic acetylcholine Receptor M4	Chemicon
192	3226	Muscarinic acetylcholine Receptor M4	Chemicon
191	3226	Muscarinic acetylcholine Receptor M4	Santa Cruz

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192	3226	Muscarinic acetylcholine Receptor M4	Santa Cruz
194	3227	Muscarinic Acetylcholine Receptor M5	Biogenesis
194	3227	Muscarinic Acetylcholine Receptor M5	Santa Cruz
200	3404	Neuropeptide Y Receptor Type 2	Biogenesis
202	3405	Neuropeptide Y Receptor Type 4	Biogenesis
206	3408	Neurotensin Receptor Type 1	Santa Cruz
208	3452	Opiate Receptor-Like 1 (OPRL1)	Santa Cruz
214	3582	Oxytocin Receptor	Santa Cruz
216	3589	Purinergic Receptor P2Y, G-protein coupled, 2 (P2RY2)	Chemicon
216	3589	Purinergic Receptor P2Y, G-protein coupled, 2 (P2RY2)	Zymed
218	3595	Purinergic Receptor P2Y1	Chemicon
218	3595	Purinergic Receptor P2Y1	Zymed
228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Biocarta
228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Lab Vision Corporation/NeoMarkers
228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Santa Cruz
236	3846	Sphingolipid Receptor Edg1	Exalpha Biologicals
238	3847	Sphingolipid Receptor Edg3	Exalpha Biologicals
240	3848	C-C Chemokine Receptor 9	Research Diagnostics
248	3852	CX3C Chemokine Fractalkine Receptor 1	Chemicon
248	3852	CX3C Chemokine Fractalkine Receptor 1	Chemokine.com
248	3852	CX3C Chemokine Fractalkine Receptor 1	eBioscience
250	3853	G Protein-Coupled Receptor GPR15	Santa Cruz
264	3860	G Protein-Coupled Receptor SLC/MCH1	Alpha Diagnostic Int.
264	3860	G Protein-Coupled Receptor SLC/MCH1	Santa Cruz
295	3927	Prostaglandin E Receptor EP4	Cayman
299	4051	Proteinase-Activated Receptor 2	Research Diagnostics
299	4051	Proteinase-Activated Receptor 2	Santa Cruz
301	4052	Proteinase-Activated Receptor 3	Research Diagnostics
301	4052	Proteinase-Activated Receptor 3	Santa Cruz
305	4254	Rhodopsin	Biocarta
305	4254	Rhodopsin	DPC Biermann/Acris
311	4480	Somatostatin Receptor Type 1	Santa Cruz

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313	4481	Somatostatin Receptor Type 2	Biogenesis
313	4481	Somatostatin Receptor Type 2	Santa Cruz
315	4482	Somatostatin Receptor Type 3	Santa Cruz
317	4483	Somatostatin Receptor Type 4	Santa Cruz
319	4484	Somatostatin Receptor Type 5	Santa Cruz
321	4552	Tachykinin Receptor 1	Santa Cruz
323	4687	Thrombin Receptor	DPC Biermann/Acris
323	4687	Thrombin Receptor	Research Diagnostics
323	4687	Thrombin Receptor	Santa Cruz
325	4734	Thyrotropin Releasing Hormone Receptor	Santa Cruz
327	4944	Angiotensin II Type 1 Receptor	Alpha Diagnostic Int.
327	4944	Angiotensin II Type 1 Receptor	Biocarta
327	4944	Angiotensin II Type 1 Receptor	Biogenesis
327	4944	Angiotensin II Type 1 Receptor	Capralogics
327	4944	Angiotensin II Type 1 Receptor	Chemicon
327	4944	Angiotensin II Type 1 Receptor	DPC Biermann/Acris
327	4944	Angiotensin II Type 1 Receptor	Fitzgerald Industries Int.
327	4944	Angiotensin II Type 1 Receptor	Fitzgerald Industries Int.
327	4944	Angiotensin II Type 1 Receptor	Lab Vision Corporation/NeoMarkers
327	4944	Angiotensin II Type 1 Receptor	Santa Cruz
329	4946	Angiotensin II Type 2 Receptor	Alpha Diagnostic Int.
329	4946	Angiotensin II Type 2 Receptor	DPC Biermann/Acris
329	4946	Angiotensin II Type 2 Receptor	Santa Cruz
331	5072	Pyrimidinergic Receptor P2Y4	Chemicon
333	5117	Vasopressin V1A Receptor	Chemicon
335	5118	Vasopressin V1B Receptor	Alpha Diagnostic Int.
335	5118	Vasopressin V1B Receptor	Chemicon
337	5119	Vasopressin V2 Receptor	Alpha Diagnostic Int.
337	5119	Vasopressin V2 Receptor	Chemicon
337	5119	Vasopressin V2 Receptor	Research Diagnostics
347	6031	SIV/HIV Receptor BONZO	Santa Cruz
349	6204	Lysophosphatidic Acid Receptor Edg4	Exalpha Biologicals
351	6213	C-C Chemokine Receptor 5	Calbiochem
351	6213	C-C Chemokine Receptor 5	Capralogics
351	6213	C-C Chemokine Receptor 5	Chemicon
351	6213	C-C Chemokine Receptor 5	Research Diagnostics
351	6213	C-C Chemokine Receptor 5	Santa Cruz
361	6853	Purinergic Receptor P2Y11	Zymed

365	7221	Galanin Receptor GalR2	Alpha Diagnostic Int.
367	7246	Orexin Receptor 1	Alpha Diagnostic Int.
369	7247	Orexin Receptor 2	Alpha Diagnostic Int.
371	8436	Platelet-Activating Factor Receptor	Cayman
371	8436	Platelet-Activating Factor Receptor	Santa Cruz
377	9421	Neuropeptide Y Receptor Type 1	Biogenesis
377	9421	Neuropeptide Y Receptor Type 1	DPC Biermann/Acris
379	9834	Corticotropin releasing factor Receptor 1	Research Diagnostics
379	9834	Corticotropin releasing factor Receptor 1	Santa Cruz
385	14198	Interleukin-8 Receptor B	Biosource
385	14198	Interleukin-8 Receptor B	R&D Systems
385	14198	Interleukin-8 Receptor B	Research Diagnostics
385	14198	Interleukin-8 Receptor B	Santa Cruz
387	14641	Calcitonin Receptor	Santa Cruz
389	16041	C-C Chemokine Receptor 6	Research Diagnostics
389	16041	C-C Chemokine Receptor 6	Santa Cruz
391	16599	Smoothened	Research Diagnostics
391	16599	Smoothened	Santa Cruz
397	17535	Gaba(b) Receptor 1	Alpha Diagnostic Int.
397	17535	Gaba(b) Receptor 1	Calbiochem
397	17535	Gaba(b) Receptor 1	Chemicon
397	17535	Gaba(b) Receptor 1	Santa Cruz
423	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	Santa Cruz
435	54053	Gaba(b) Receptor 2	Alpha Diagnostic Int.
435	54053	Gaba(b) Receptor 2	Chemicon
439	56923	Muscarinic acetylcholine Receptor M3	Biogenesis
439	56923	Muscarinic acetylcholine Receptor M3	Santa Cruz
457	152201	Thyrotropin Receptor	DPC Biermann/Acris
457	152201	Thyrotropin Receptor	Santa Cruz
459	152245	C-C Chemokine Receptor 2	Research Diagnostics
459	152245	C-C Chemokine Receptor 2	Santa Cruz
461	152299	Interleukin-8 Receptor A	Biosource
462	152299	Interleukin-8 Receptor A	Biosource
461	152299	Interleukin-8 Receptor A	R&D Systems
462	152299	Interleukin-8 Receptor A	R&D Systems
461	152299	Interleukin-8 Receptor A	Research Diagnostics
462	152299	Interleukin-8 Receptor A	Research Diagnostics
461	152299	Interleukin-8 Receptor A	Santa Cruz
462	152299	Interleukin-8 Receptor A	Santa Cruz
468	159973	Vasoactive Intestinal Polypeptide Receptor 1	Exalpha Biologicals
470	160040	Vasoactive Intestinal Polypeptide Receptor 2	Exalpha Biologicals
472	160055	Motilin Receptor (GPR38)	Santa Cruz

503	160228	T-Cell Death-Associated Gene 8 (GPR65)	Santa Cruz
507	160312	Sphingolipid Receptor Edg5	Exalpha Biologicals
515	160329	Proteinase-Activated Receptor 4	Santa Cruz
535	161214	Galanin Receptor GalR3	Alpha Diagnostic Int.
537	161221	Urotensin-II Receptor (GPR14)	Santa Cruz
546	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Cayman
548	177191	Histamine H3 Receptor	Alpha Diagnostic Int.
548	177191	Histamine H3 Receptor	Chemicon
552	180956	Lysophosphatidic Acid Receptor Edg7	Exalpha Biologicals
562	189900	Sphingolipid Receptor Edg8	Exalpha Biologicals
628	190774	Histamine H4 Receptor	Alpha Diagnostic Int.
628	190774	Histamine H4 Receptor	Chemicon
636	190955	Leukotriene B4 Receptor BLT1	Cayman